B-3 Cost Estimate for AFL Equipment Works

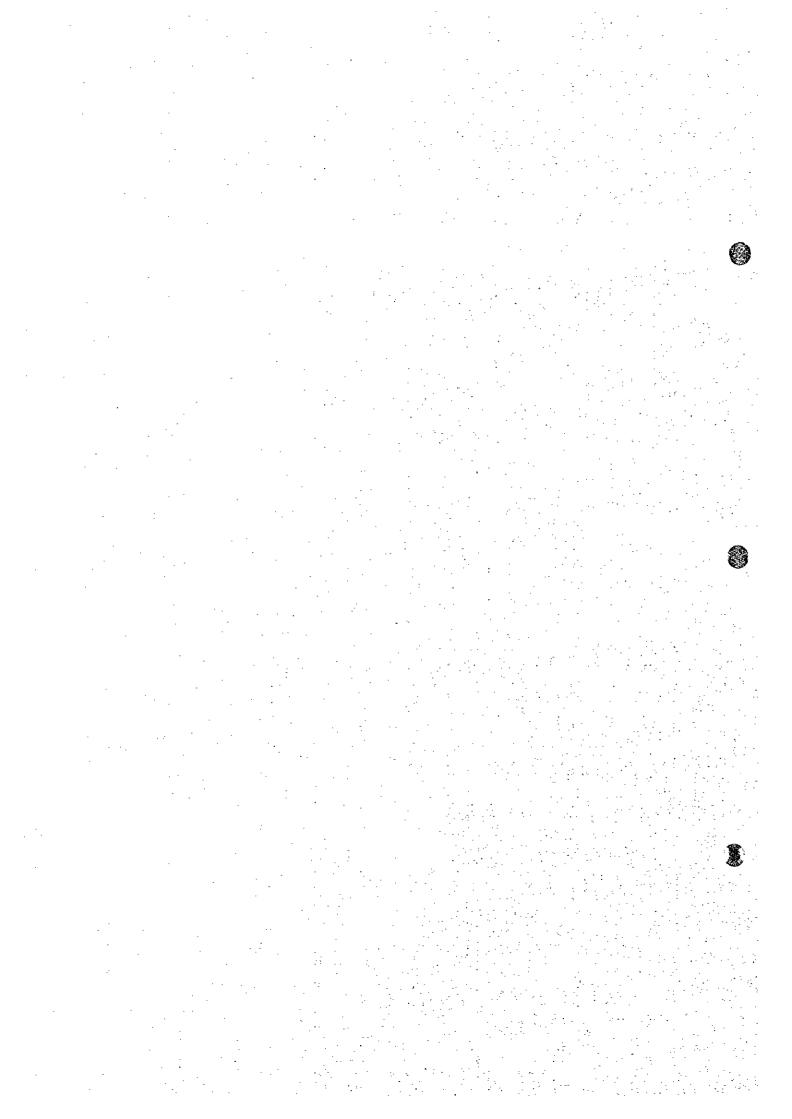
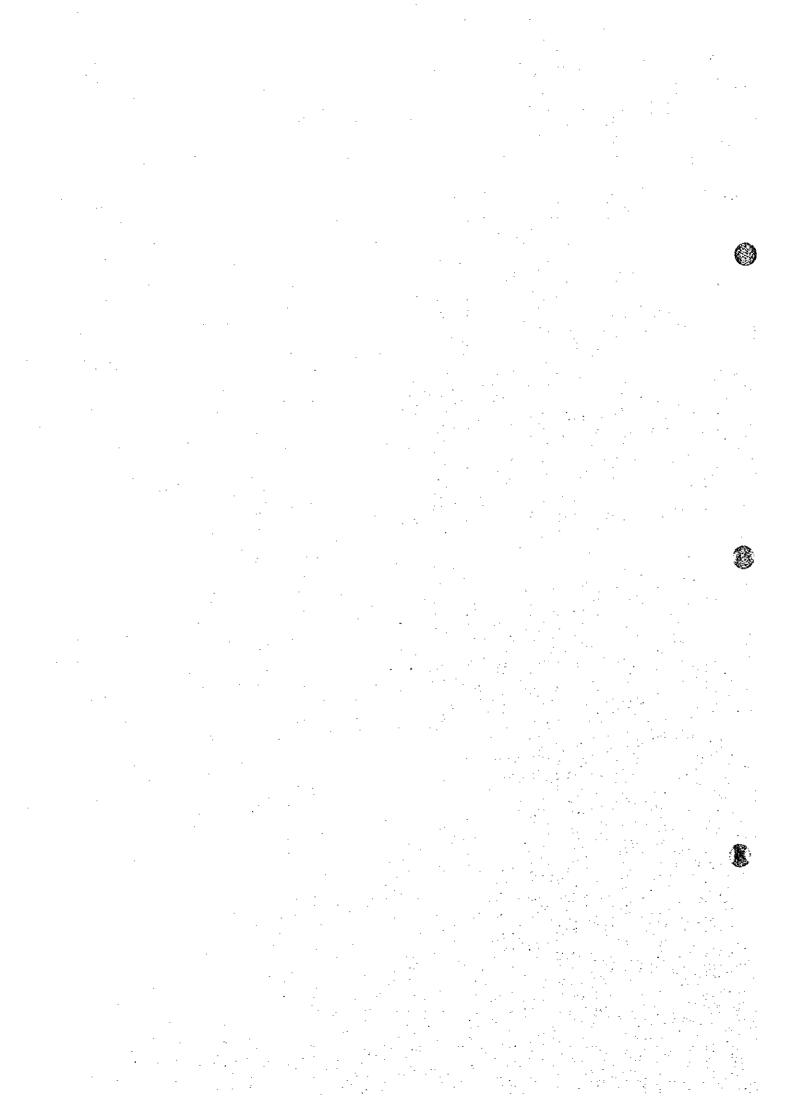


Table of Direct Construction Cost

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Shanghai Pudong International Airport Project (Airsield Lighting System)

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e :		:	,	Foreign Co	Foreign Cost Component	Local Cost	Local Cost Component	Combined
ģ	Description of Works	Cuit	Quantity	C	(Yen)	(China	(China RMB)	Total
				Rate	Amount	Rate	Amount	China RMB
<u> </u>								
1. Precisi	I. Precision Approach Lighting System	lot			35,743,341		5,102,548.80	7,925,877.48
2. Seque	2. Sequence Flashing Lights	lot			44,873,730		1,518,235.58	5,062,764,02
3. Precisi	3. Precision Approach Path Indicator	lot	-		10,265,114		104,343,21	915,173.70
4. Runwa	4. Runway Edge Lights	ŏ			10,394,199		2,764,856.86	3,585,883.64
5. Runw	5. Runway Threshold Lights	lot	-		19,886,320		553,164.67	2,123,964.04
6. Runw	6. Runway End Lights	lot	~		2,790,819		525,519.86	745,963.70
7. Runw	7. Runway Center Line Lights	jo	=		108,674,214		5,651,561.03	14,235,622.17
8. Runwa	8. Runway Touchdown Zone Lights	jot	-		73,701,357		3,621,135.56	9,442,727.75
9. Taxiw	9. Taxiway Center Line Lights	lot			276,699,388		35,353,937.97	57,210,129.76
===	10. Taxiway Edge Lights	<u>8</u>			39,517,145		13,506,552.66	16,627,970.12
291 391	11. Stop Bar System	lot	pro		59,841,417		3,145,808.19	7,872,618.38
	12. Runway Guard Lights	lot	p-4		4,103,403		63,398.11	387,521.57
13. Taxin	13. Taxiway Intersection Lights	lot		•	22,624,964		3,685,912.60	5,473,034.56
14. Taxii	14. Taxiing Guidance Signs	lot	perel	-	1,581,092		9,738,451.59	9,863,340,38
15. Winc	5. Wind Direction Indicator Lights	jot	1 -1		1,340,130		277,398.10	383,253.56
16. Apro	16. Apron Floodlighting	jo			168,725,552		45,337,772.88	58,665,225.65
17. Visu	17. Visual Docking Guidance System	lot			338,428,200		733,980.78	27,466,066.09
18. Aircr	18. Aircraft Stand Identification Signs	lot	****				1,877,414.76	1,877,414.76
19. Road	19. Road-Holding Position Lights	ŏ			3,007,830		279,867.20	517,452.51
20. Powe	20. Power Supply, Control and Monitoring System for Airfield Lig	ŏ	,		926,412,531		1,445,938.46	74,622,283.73
21. AFL	21. AFL Main Duct	iot	P-4				25,970,375,99	25,970,375.99
•								
	Sub-Total				2,148,610,746		161,258,174,86	330,974,663,56

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Item			Foreign Co	Foreign Cost Component	Local Cost	Local Cost Component	Combined
No. Description of Works	Cnit	Quantity	0	(Yen)	(Chin	(China RMB)	Total
			Rate	Amount	Rate	Amount	China RMB
1. Power Distribution System (Main AFL Sub-Station)	io			126,212,465		913,559.60	10,882,948,63
2. Diesel Engine Generator (Main AFL Sub-Station)	ğ	•		167,670,649		234,000.00	13,478,127,10
3. Uninterruptible Power Supply System (Main AFL Sub-Station)	ļot			149,383,008		89,000.00	11,888,605.69
4. Power Distribution System (Secondary AFL Sub-Station)	jot			116,188,949		634,852.50	9,812,494.61
5. Diesel Engine Generator (Secondary AFL Sub-Station)	<u></u>			138,909,903		234,000.00	11,206,346.21
6. Uninterruptible Power Supply System (Secondary AFL Sub-Stat	10t			99,591,034		89,000.00	7,955,590.37
7. Control and Monitoring System for Power Distribution System	<u>ŏ</u>					691,021.68	691.021.68
8. Maintenence Room Equipment	lot			288,986,500	-		22,826,737.76
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	27-021-100-101						
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Total				3 226 663 264			
A VIAS				5,255,555,254		164,143,608,64	419,716,535.61



Contract

Shanghai Pudong International Airport Project (Airfield Lighting System)

Combined	Total	China RMB																										
omponent	SMB)	Amount		2,612,40	3,134.88	935,685.40	265,756.80	1,480,206.42	657,954.08	207,524.82	206,067.54	29,830.46	30,239,52	146,835.00	385,073.30	222,840.00	2,339.28	2,143.20	33,200.70	41,507.78	16,874.70	8,001.60	62,380.80	143,121.88	110,284.24	108,934.00		5,102,548.80
Local Cost Component	(China RMB)	Rate		261.24	261.24	2,768.30	2,768.30	27,411,23	23,498.36	103,762.41	103,033.77	1,355.93	2,519.96	6.50	. 83.53	74.28	194.94	214.32	85.13	1,092.31	wedrocks Tex	333.40	136.80	6,505.54	ucahil. Ju			
Foreign Cost Component L)	Amount		2,716,500	3,630,600	6,048,510	1,717,920							14,163,930			489,600	489,000		arrando arr			4,487,040		588,888	1,411,353		35,743,341
Foreign Cost Component	(Yen)	Rate		271,650	302,550	17,895	17,895							627		·· <u>······</u>	40,800	48,900					9,840		<u>., ., , , , , , , , , , , , , , , , , ,</u>		· ·	
	Quantity			10	12	338	96	54	28	7	73	22	12	22,590	4,610	3,000	2	01	390	38		24	456	22		F		
51	Unit			bcs	bcs	bcs	bcs	set	set	set	set	set	pcs	meter	meter	meter	set	set	meter	bcs	jo	pcs	set	set	lot	lot		
	Description of Works		1. Precision Approach Lighting System	PALS surface-type white	PALS surface-type red	PALS elevated-type white	PALS elevated-type red	Foundation for PALS center line barrette	Foundation for PALS side row barrette	Foundation for PALS 150m cross bar	Foundation for PALS 300m cross bar	Foundation for PALS surface-type	Transformer housing box	5kv AFL primary cable	FEP 80	FEP 50	600v AFL secondary cable 30m with plug	600v AFL secondary cable 40m with plug	SGP 50	Flexible pipe 50 (stainless)	Auxiliary materials for piping	Cable splice kit (5kv AFL primary cable)	Plug and receptacle	Earthing terminal	Consumable and miscellaneous materials	Spare parts		Total
Item	Š		1. Precisi		N	M	4	ν.	9	-	∞	δ.	01	-	2	**************************************	4	15	91	1	8	<u>o</u>	20	21	52	23	24	

Shanghai Pudong International Airport Project (Airsield Lighting System)

Item				Foreign Cos	Foreign Cost Component	Cost Company	Omnonent	
Š	Description of Works	Unit	Quantity	λ)	(Yen)	(China RMB)	RMB)	Total
				Rate	Amount	Rate	Amount	China RMS
. Seque	2. Sequence Flashing Lights							
	SFL elevated-type with control cabinet	Soc	58	703,350	40,794,300	323.70	18.774.60	
7	Central control cabinet	200	2	included in the above.	bove.	570.00	1,140.00	
m	Foundation for control cabinet	set	58		dh. Ab war an	392,10	22,741.80	
4	Hand hole 400x400x500	bcs	58			1.268.91	73 596 78	
8	600v XLPE/PVC 35mm²-4c	meter	1,400			96.21	134 694 00	
9	600v XLPE/PVC 25mm²4c	meter	580	·		72.26	41,910.80	
7	600v XLPE/PVC 16mm²-4c	meter	720			50.31	36,223,20	
∞	600v XLPE/PVC 10mm²-4c	meter	720			35.97	25,898,40	
0	600v PVC 4mm²-30c	meter	720			108.13	77 853 60	
02	600v PVC 4mm²-20c	meter	4,660			78.14	364 132 40	
1.1	Special 6-core cable	meter	2,790	included in the above,	30Ve,	10.26	28.625.40	
12	FEP 80	meter	2,930			83.53	244 742 90	
13	FEP SO	meter	4,230		AR / THE STATE OF	74.28	314 204 40	
74	Auxiliary materials for piping	lot					11 990 40	
15	Earthing terminal	set	12			6 505 54	78 066 48	
91	Consumable and miscellaneous materials	į	\$ -24)	43 640 42	
17	Spare parts	lot	P~d		4 079 430		71.010.01	
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19						18.3-37.434		
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22							Caragaranya	
23			Marrie and America	-White		:		
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	Total				14 872 720			
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Shanghai Pudong International Airport Project (Airsield Lighting System)

Item	-			Foreign Cost	Foreign Cost Component	Local Cost Component	omponent	Combined
ģ	Description of Works	Unit	Quantity	(Yen)		(China RMB)	SMB)	Total
				Rate	Amount	Rate	Amount	China RMB
3. Precis	3. Precision Approach Path Indicator							
	PAPI	pcs	∞	779,250	6,234,000	1,067.40	8,539.20	
7	Foundation for PAPI	set	00	-		2,064.14	16,513.12	
m	Skv AFL primary cable	meter	4,900	627	3,072,300	6.50	31,850.00	
4	FEP 80	meter	300			83.53	25,059.00	
Ŋ	Auxiliary materials for piping	<u>0</u>	-				630.00	
v	Cable splice kit (5kv AFL primary cable)	SOC.	60	- 	- Carlo	333.40	2,667.20	
^	Plug and receptacle	set	24	9,840	236,160	136.80	3,283.20	
∞	Earthing terminal	set	2			6,505.54	13,011.08	
Φ	Consumable and miscellaneous materials	·lot	•		99,254		2,790,41	
2	Spare parts	lot			623,400	-		
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Shanghai Pudong International Airport Project (Airsield Lighting System)



Shanghai Pudong International Airport Project (Airsield Lighting System)

Item				Foreign Cost Component	Component	Local Cost Component	Component	Combined
Š	Description of Works	Cait	Quantity	(Yen)	(u)	(China RMB)	RMB)	Total
				Rate	Amount	Rate	Amount	China RMB
5. Runw	5. Runway Threshold Lights							
••••• • .	RTHL surface-type green	bcs	42	267,450	11,232,900	261.24	10,972.08	
7	WBAR elevated-type green	bcs	20	17,895	357,900	3,028.30	90,566.00	
m	Foundation for RTHL	seyt	42			1,355.93	56,949.06	
4	Foundation for WBAR	set	20			743.92	14,878.40	
'n	Transformer housing box	bcs	32			2,519.96	80,638.72	
ø	5kv AFL primary cable	meter	6,150	627	3,856,050	6.50	39,975.00	
7	FEP 80	meter	150	<u></u>		83.53	12,529.50	
∞	600v AFL secondary cable 10m with plug	set	12	24,600	295,200	156.18	1,874.16	
٥	600v AFL secondary cable 20m with plug	set	12	32,700	392,400	175.56	2,106.72	
0	600v AFL secondary cable 30m with plug	set	91	40,800	652,800	194.94	3,119.04	÷
	600v AFL secondary cable 40m with plug	set	12	48,900	586,800	214.32	2,571.84	
12	600v AFL secondary cable 50m with plug	set	01	57,000	570,000	233.70	2,337.00	
13	SGP 80	meter	400	• 4-		107.36	42,944.00	
7.	SGP 50	meter	240			85.13	20,431.20	
15	Flexible pipe 80 (stainless)	bcs	24			2,275.68	54,616.32	
9.	Flexible pipe 50 (stainless)	bcs	44			1,092,31	48,061.64	
17	Auxiliary materials for piping	101			- · · ·		7,378.20	
8	Cable splice kit (5kv AFL Primary Cable)	bcs	12		·	333.40	4,000.80	
19	Plug and receptacle	set	62	9,840	610,080	136.80	8,481.60	
20	Earthing terminal	set	2			6,505.54	13,011.08	
21	Consumable and miscellaneous materials	lot	B-14		208,900	77 -4-4 234	10,322.31	
23	Spare parts	lot			1,123,290	e e e e e e e e e e e e e e e e e e e	55,400.00	
23								
24								
		Total			19,886,320		553,164.67	

Shanghai Pudong International Airport Project (Airfield Lighting System)

	Combined	China RMB		**************************************																			N					
	Local Cost Component (China RMB)	Amount		15121128	29.830.46	55 439 12	702.24	1.559.52	1,714.56	467.40	13,956.80	22,133,80	27.308 16	34,953,92	3,720.60	3 009 60	164 966 00	14 545 40	7		-	-	-			•		20 013 203
/	China	Rate		6,873.24	1,355.93	2.519.96	175,56	194.94	214.32	233.70	107.36	85.13	2,275.68	1,092.31		136.80										с.а. дара	-	
▫▮	component n)	Amount		393,690			130,800	326,400	391,200	114,000						216,480	1,178,880	39.369							wa.çıma	• .		2 790 819
Roteign Cost Component	Yen) (Yen)	Rate		17,895			32,700	40,800	48,900	57,000		- Maronan	-			9;840	•	- 							•	:	-	
	Quantity			22	22	22	4	00		7	130	260	12	32	P-d	22	-						-					
	C Sigit			bcs	રૂં	bcs	set	set	Set	set	meter	meter	bcs	bcs	lot	set	ŏ	lot —	·				·			-		Total
	Description of Works		6. Runway End Lights	RENL surface-type red	Foundation for RENL	Transformer housing box	600v AFL secondary cable 20m with plug	600v AFL secondary cable 30m with plug	600v AFL secondary cable 40m with plug	600v AFL secondary cable 50m with plug	SGP 80	SGP 50	Flexible pipe 80 (stainless)	Flexible pipe 50 (stainless)	Auxiliary materials for piping	Plug and receptacle	Consumable and miscellaneous materials	Spare parts										
Item	, Š		6. Runwa	•	(1	M	4	Ŋ	Ø	^	∞ .	0	2	pod pod	2	13	4	15	92	12	82	6.	20	77	22	23	24	





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Combined	Total	China RMB																	-									
)	IMB)	Amount		48,851.88	20,899.20	362,033.31	1,345,658.64	294,580,00	1,603,776.00	114,446.88	1,036,883.40	291,646.77	135,689.40	5,334.40	73,051,20	156,132.96	162,576,99		0									5,651,561.03
Local Cost Component	(China RMB)	Rate	******	261.24	261.24	1,355.93	2,519.96	6.50	83.53	214.32	85.13	1,092.31		333.40	136.80	6,505.54			· <u>·</u>	en e			raph march and	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,2 2.			
omponent	Villagoria (Amount		29,340,300	13,476,000			28,415,640	***************************************	26,112,600			-		5,254,560		1,793,484	4,281,630			· · · · · · · · · · · · · · · · · · ·					-		108,674,214
Foreign Cost Component	(Yen)	Rate		156,900	168,450		-	627		48,900		, mande de la c			9,840	•			**********	a 								
	Quantity			187	80	267	534	45,320	19,200	534	12,180	267		16	534	24												
	Cn:			bcs	DC.	set	bcs	meter	meter	set	meter	pcs	lot	pcs	set	set	lot	lot										
Foreign Cost Component	Description of Works	•	7. Runway Center Line Lights	RCLL white/white	RCLL white/yellow	Foundation for RCLL	Transformer housing box	Sky AFL primary cable	FEP 80	600v AFL secondary cable 40m with plug	SGP 50	Flexible pipe 50 (stainless)	Auxiliary materials for piping	Cable splice kit (5kv AFL Primary Cable)	Plug and receptacle	Earthing terminal	Consumable and miscellaneous materials	Spare parts						-				Total
	No.		7. Runwa	· · · · · · · · · · · · · · · · · · ·	7	М	4	S	9	7	60	δ	<u>.</u>	p-4 p-4	ü	ξ;	7	15	91	17	81	61	20	5	23	ম	24	

Shanghai Pudong International Airport Project (Airfield Lighting System)

Sate Amount Rate Amount Amo	Cacinotical of work	.				1600	Cost Component	Combined
Raic Amount Rate Amount Rate Amount Rate Amount Rate Amount			Quantity	- [en)	(China	RMB)	Total
set 360 115,050 41,418,000 261.24 set 360				Rate	Amount	Rate	Amount	China RMB
for RTZL set 360 for RT	ouchdown Zone Lights							
for RTZL thousing box thousing box thousing box meter 14,500 627 9,091,500 6.50 meter 7,400 6.500 194,94 meter 8,280 600 194,94 minal 1 14,688,000 194,	TZL white	bcs	360	115,050	41,418,000	261.24	94.046.40	
r housing box meter 14,500 627 9,091,500 6.50 meter 7,400 627 9,091,500 6.50 74.28 econdary cable 30m with plug set 360 40,800 14,688,000 194,94 meter 8,280 600 10 1 1 1 1 8 13.340 8 13.340 8 10 1 1 1 8 19,657 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	undation for RTZL	set	360			1,355.93	488 134 80	
meter 14,500 627 9,091,500 6.50 74.28 14.68 14.68 14.68 14.68 14.68 14.68 14.68 14.68 14.68 16.5	ansformer housing box	bcs	240			2,519,96	604 790 40	
econdary cable 30m with plug set 360 40,800 14,688,000 194,94 meter 8,280 40,800 194,94 meter 8,280 40,800 194,94 set 360 40,800 194,94 set 360 40,800 194,94 set 360 40,800 194,94 set 360 600 194,94 set 360 194,94	v AFL primary cable	meter	14,500	627	005,160,6	6.50	94,250.00	
econdary cable 30m with plug set 360 40,800 14,688,000 194,94 meter 8,280 600 85.13 e 50 (stainless) pcs 600 1,092,31 aterials for piping pcs 8 350 9,840 3,542,400 136.80 set 20 819,657 minal lot 1 819,657 e and miscellaneous materials lot 1 1 4,688,000 194,94		meter	7,400	Productive State of S		74.28	549,672.00	
e 50 (stainless) pcs 600 aterials for piping lot 1 skit (5kv AFL Primary Cable) pcs 8 set 360 9,840 3,542,400 136.80 minal set 20 minal lot 1 lot 1 4,141,800	0v AFL secondary cable 30m with plug	Set	360	40,800	14,688,000	194.94	70,178.40	
aterials for piping lot 1 1 333.40 skit (5kv AFL Primary Cable) set 360 9,840 3,542,400 136,80 set 20 8,840 3,542,400 136,80 set 1 20 6,505.54 lot 1 819,657 duinal lot 1 4,141,800 set 20 4,141,800 set 20 6,505.54 set 20 6,505.54 set 20 6,505.54 set 20 6,505.54 set 20 6,505.54 set 20 6,505.54 set 20 6,505.54 set 20 6,505.54 set 20 6,505.54 set 20 6,505.54 set 20 6,505.54 set 20 6,505.54 set 20 6,505.54 set 20 6,505.54 set 20 6,505.54 set 20 6,505.54 set 20 6,505.54 set	JP 50	meter	8,280			85.13	704.876.40	
aterials for piping skit (5kv AFL Primary Cable) set 360 set 20 minal set 20	exible pipe 50 (stainless)	bcs	009			1,092.31	655,386.00	
set 360 9,840 3,542,400 136,80 septacle set 360 9,840 3,542,400 136,80 minal set 20 8,840 3,542,400 136,80 and miscellaneous materials lot 1 4,141,800	ixiliary materials for piping	ĕ	F-4				75 044 40	
eptacle set 360 9,840 136.80 136.80 minal set 20 819,657 6,505.54 lot 1 819,657 lot 1 4,141,800	ble splice kit (5kv AFL Primary Cable)	Sod	80			333,40	2 667 20	
minal set 20 6,505.54 and miscellaneous materials lot 1 819,657 lot 1 4,141,800	ug and receptacle	set	360	9,840	3,542,400	136.80	49 248 00	
s and miscellaneous materials lot 1 819,657 lot 1 4,141,800	rthing terminal	Ş S	20	K.A.(II- u-o		6.505.54	130 110 80	
4,141,800	nsumable and miscellaneous materials	ğ	-	-	819.657		102 730 76	•
	are parts	ğ		-	4,141,800			
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Combined	Total	China RMB																										wever
omponent	WB)	Amount		18,259,44	2,474,154.12	3,326,261.32	520,032.36	445,207.56	240,415.96	757,766.76	6,269.76	6,269.76	17,241.84	15,674.40	2,592,538.16	873,902.76	680,676.86	6,083,183.44	10,151.28	771,485.00	937,206.60	787,368.00	413,857.62	30,433,44	30,614.70	1,518.48	3,269.52	21,043,759,14
Local Cost Component	(China RMB)	Rate		3,043.24	3,043.24	3,043.24	3,741.24	3,741.24	3,043.24	3,043.24	261.24	261.24	261.24	261.24	1,355.93	3,387.22	1,355.93	2,519.96	1,268.91	6.50	83.53	74.28	194.94	214.32	233.70	253.08	272.46	
omponent	(Amount		97,110	13,158,405	17,690,205	2,249,715	1,926,015	1,278,615	4,030,065	2,998,800	2,998,800	8,246,700	7,497,000		=				74,418,630	<u></u>		86,618,400	6,943,800	7,467,000	390,600	878,400	238,888,260
Foreign Cost Component	(Yen)	Rate		16,185	16,185	16,185	16,185	16,185	16,185	16,185	124,950	124,950	124,950	124,950						627			40,800	48,900	57,000	65,100	73,200	
	Quantity			9	813	1,093	139	119	79	249	24	24	99	09	1,912	258	502	2,414	∞	118,690	11,220	10,600	2,123	142	13.	9	12	
	Unit			bcs	bcs	bcs	bcs	pcs	pcs	pcs	pcs	PCS	25	bcs	set	ž	set	sod	bcs	meter	meter	meter	set	set	set	set	set	
	Description of Works		9. Taxiway Center Line Lights	TCLL narrow green/yellow (with shallow base)	TCLL narrow green/green (with shallow base)	TCLL wide green/green (with shallow base)	TCLL narrow green/green (with deep base)	TCLL wide green/green (with deep base)	HSTCLL narrow green (with shallow base)	HSTCLL wide green (with shallow base)	HSTCLL narrow yellow (stb-R/W) (with shallow base)	HSTCLL narrow green (stb-R/W) (with shallow base)	HSTCLL wide yellow (stb-R/W) (with shallow base)	HSTCLL wide green (stb-R/W) (with shallow base)	Foundation for TCLL (typical)	Foundation for TCLL (apron area) with TR housing box	Foundation for HSTCLL (typical)	Transformer housing box	Hand hole 400x400x500	5kv AFL primary cable	FEP 80	FEP 50	600v AFL secondary cable 30m with plug	600v AFL secondary cable 40m with plug	600v AFL secondary cable 50m with plug	600v AFL secondary cable 60m with plug	600v AFL secondary cable 70m with plug	Sub-Total
Item	ģ		9. Taxiwa	grad	73	ď	4	'n	9	^	∞	o	0	= 401	12	E.	7	15	91	<u></u>	∞	6	20	21	23	23	24	

Shanghai Pudong International Airport Project (Airfield Lighting System)

Item				Foreign Cost Component	Component	Local Cost Component	omponent	Combined
Š	Description of Works	Chit	Quantity	(Yen)) (us	(China RMB)	RMB)	. Total
				Rate	Amount	Rate	Amount	China RMB
25	SGP 80	meter	1,420		~ ~	107.36	152,451.20	
26	SGP 50	meter	92,740			85.13	7,894,956.20	
27	Flexible pipe 50 (stainless)	bcs	2,414	-		1,092.31	2,636,836,34	
78	Auxiliary materials for piping	10	\$				994,805.40	
29	Cable splice kit (5kv AFL Primary Cable)	<u>8</u>	130	•		333.40	43,342.00	
93	Plug and receptacle	set	2,672	9,840	26,292,480	136.80	365,529.60	
<u></u>	Earthing terminal	set	117		managan araban	6,505,54	761,148.18	
33	Consumable and miscellaneous materials	ļ		- · · · · · · · · · · · · · · · · · · ·	5,301,505		748,157.91	-
33	Spare parts	<u>5</u>	~	···	6,217,143		712,952.00	
34		•••••		•				
35	-							
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	Total	tail			276 699 388		35 352 027 07	





Shanghai Pudong International Airport Project (Airfield Lighting System)

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Combined	Total	China RMB													-												:	
omponent	SMB)	Amount		2,341,962.20	228,436.84	2,807,235,44	1,955,720.00	533,756.70	1,610,390.40	173,984.52	853,853,90	1,216,833.34	121,872.30	22,671.20	152,395.20	962,819.92	319,199.10	205,421.60					, , , , , , , , , , , , , , , , , , ,					13,506,552.66
Local Cost Component	(China RMB)	Rate	-	2,102.30	205.06	2,519,96	26.00	83.53	74.28	156.18	85.13	1,092.31		333.40	136.80	6,505.54	rgueronia vo							. par. a.a.				
Component	1)	Amount				· .	-		:	27,404,400					10,961,760		1,150,985			······································								39,517,145
Foreign Cost Component	(Yen)	Rate								24,600				,, °	9,840													
	Quantity			1,114	1,114	1,114	75,220	6,390	21,680	1.114	10,030	11.4		89	1,114	148	ga.col	grad .										
	Unit			bcs	set	bcs	meter	meter	meter	set	meter	bcs	jor	pcs	set	set	lot	lot										
	Description of Works		10. Taxiway Edge Lights	TWYL elevated-type blue	Foundation for TWYL with normal bend	Transformer housing box	Sky AFL primary cable	FEP 80	FEP 50	600v AFL secondary cable 10m with plug	SGP SO	Flexible pipe 50 (stainless)	Auxiliary materials for piping	Cable splice kit (5kv AFL Primary Cable)	Plug and receptacle	Earthing terminal	Consumable and miscellaneous materials	Spare parts							-			Total
Item	ģ		10. Taxin		71	ω	4	S	9	^		o	0	=	.2	2	7	5	91	17	81	19	8	72	22	23	24	

11000								
		;	,	Foreign Cost Component	Component	Local Cost Component	Component	Combined
o Z	Description of Works	Cart	Quantity	(Yen)	(u	(China RMB)	RMB)	Total
				Rate	Amount	Rate	Amount	China RMB
1. Stop	1. Stop Bar System							
-	STBL surface-type red	bcs	09	16,185	971,100	3,053.24	183,194,40	
7	STBL elevated-type red	bcs	24	16,185	388,440	1,653.30	39,679.20	Mich. 7. e. Pha
ო	STBL surface-type red controllable	bcs	. 70	125,850	8,809,500	261.24	18,286.80	
4	STBL elevated-type red controllable	bcs	24	16,185	388,440	1,653.30	39,679.20	
Ś	TCLL narrow green/yellow controllable	bcs	9	132,000	792,000	261.24	1,567.44	
9	TCLL narrow green/green controllable	bcs	9	132,000	792,000	261.24	1,567.44	
7	TCLL wide green/yellow controllable	bcs	42	132,000	5,544,000	261.24	10,972.08	
6 0	TCLL wide green/green controllable	pcs	42	132,000	5,544,000	261.24	10,972.08	
σ	Foundation for STBL surface-type	set	130			1,355.93	176,270.90	
2	Foundation for STBL elevated-type with normal bend	Set	48			205.06	9,842.88	
	Foundation for TCLL controllable	set	96			1,355.93	130,169.28	
22	Transformer housing box	bcs	192			2,519.96	483,832.32	
<u>n</u>	Microwave sensor	Set	9	included in Item 20.	··	647.40	3,884.40	
7	Foundation for microwave sensor	Set	12			743.92	8,927.04	
15	5kv AFL primary cable	meter	32,360	627	20,289,720	6.50	210,340.00	- 786
9	FEP 80	meter	4,760			83.53	397,602.80	
2	600v AFL secondary cable 10m with plug	set	48	24,600	1,180,800	156.18	7,496.64	
<u>∞</u>	600v AFL secondary cable 20m with plug	Set	72	32,700	2,354,400	175.56	12,640.32	
19	600v AFL secondary cable 30m with plug	Set	94	40,800	3,835,200	194.94	18,324.36	
ន	600v AFL secondary cable 40m with plug	set	09	48,900	2,934,000	214.32	12,859.20	
77	SGP 50	meter	6,760			85.13	575,478.80	
23	Flexible pipe 50 (stainless)	DCS.	452			1,092.31	493,724.12	
23	Auxiliary materials for piping	ট্র	-		- 1	-	62,926.80	
24	Cable splice kit (5kv AFL Primary Cable)	bcs	40			333.40	13,336.00	
	Sub-Total				53,823,600		2,923,574.50	







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Combined Total	China RMB												٠													
Component RMB)	Amount	37,483.20	78,066.48	81,996.17	24,687.84	T-48-1886, P	la:Turphpurgas		E.AB/1-21								- <u> </u>									3,145,808.19
Local Cost Component (China RMB)	Rate	136.80	6,505.54				~~··				TOTAL TOTAL STREET							· · · · · · · · · · · · · · · · · · ·			*****					
Component (r	Amount	2,696,160		998,709	2,322,948													· · · · · · · · · · · · · · · · · · ·	Ca la Nar	-		··	:	-		59,841,417
Foreign Cost Component (Yen)	Rate	9,840		**************************************												-										
Quantity		274	12						·																	
Unit		Set	Set	lot	ţ																	-				
Description of Works		Plug and receptable	Earthing terminal	Consumable and miscellaneous materials	Spare parts																					Total
Item No.	:	25	56	27	28	23	8	m	32	33	1.00	ኢ 405		37	38	39	6	4	42	43	4 4	45	. 46	47	48	

Shanghai Pudong International Airport Project (Airsield Lighting System)

onent Combined	Total	Amount China RMB		3,099,60	56,900.64	1,641.60	1,756.27	,	· · · · · · · · · · · · · · · · · · ·																* **** **		63,398.11
Local Cost Component	(China RMB)	Rate A		258.30	4,741.72	136.80	=~			·		a-cu rélê-v					· 3 · 3 · 4 · 1					200 ₀ 200 - 1 ₀ - 1 ₀	-		-		
Foreign Cost Component	(Yen)	Amount		3,619,800		118,080	3,543	361,980															: .÷				4,103,403
Foreign Cost	X)	Rate		301,650		9,840							*·- <u>-</u>			-				***************************************			B-tameCorrect, an	-	:		
	Quantity			12	12	12		2-2																			
	C _{ni} ;			bcs	Set	set	lot	lot																			
	Description of Works		12. Runway Guard Lights	Runway Guard Lights	Foundation for runway guard lights	Plug and receptacle	Consumable and miscellaneous materials	Spare parts															\$ \frac{1}{2} \tag{2}				Total
Item	, Š		2. Runwa		7	m	4	v)	9	7	∞	δ.	2	prod prod	12	<u>n</u>	4	15	9	2	00 (2 6	3 7	7 6	77 1	2 %	

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Item				Foreign Cost Component	Component	Local Cost Component	Component	Combined
Š	Description of Works	Unit	Quantity	(Yen)	-	(China RMB)	RMB)	Total
				Rate	Amount	Rate	Amount	China RMB
13. Taxiv	13. Taxiway Intersection Lights							
•	TISL yellow (with shallow base)	bcs	315	16,185	5,098,275	3,043.24	958,620.60	
7	TISL yellow (with deep base)	bcs	21	16,185	339,885	3,741.24	78,566.04	
m	Foundation for TISL (typical)	set	315			1,355,93	427,117.95	
4	Foundation for TISL (apron area) with TR housing box	set	21			3,387.22	71,131.62	
'n	Transformer housing box	bcs	315			2,519.96	793,787.40	
9	600v AFL secondary cable 30m with plug	set	315	40,800	12,852,000	194.94	61,406.10	
<u>۲</u>	SGP 80	meter	2,590			107.36	278,062.40	
6 0	SGP 50	meter	760		.	85.13	64,698.80	Sag V villade
0	Flexible pipe 80 (stainless)	bcs	105			2,275.68	238,946.40	
2	Flexible pipe 50 (stainless)	sod	420			1,092,31	458,770.20	and the same
p4	Auxiliary materials for piping	ot	**1			a full of the ado	39,517.20	
2	Plug and receptacle	Set	336	9,840	3,306,240	136.80	45,964.80	-
Ξ.	Consumable and miscellaneous materials	iot			484,748		74,382.09	
7	Spare parts	lot	-		543,816		94,941.00	
15	-						,- <u>.</u>	
91				•				
17					Transmitter in .	===+++++++++++++++++++++++++++++++++++		
82						accum. Addresi		
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23				**************************************		-		
24								
	Total				22,624,964		3,685,912.60	

Snangnai Fudong International Airport Project (Airfield Lighting System)

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Combined	Total	China RMB										•			-											-		
Omponent	RMB)	Amount		84 013 80	428,028,30	857 000 00	708.875.00	616,665.00	608,100.00	300,545.00	702,320,00	7.729.14	36.998.22	70,472.80	55.921.00	46 973 64	54 189 20	18 966 22	50.928.48	197,949,96	898 300 00	1 821 789 30	204 270 00	49 596 00	2 000 40	21 340 80	806 686 96	8 649 659 22
Local Cost Component	(China RMB)	Rate		14,002.30	20,382.30	21,425.00	28,355.00	29,365.00	30,405.00	42,935.00	43,895.00	1,288.19	1,761.82	1,761.82	2,236.84	2,236,84	2.709.46	2.709.46	3,183.03	1,268.91	26.00	83.53	74.28		333.40	136 80	6.505.54	
Component	(E	Amount												tur turnutu unu									~~~			1.535.040		1,535,040
Foreign Cost Component	(Yen)	Rate			***************************************															-		Parks Barba			:	9,840		
	Quantity			V	21	40	25	21	20	7	16	9	21	40	25	21	20		16	156	34,550	21,810	2,750	~	9	156	124	
	E			Soci	pcs	pcs	bcs	bcs	bcs	Soc	bcs	set	pcs	meter	meter	meter	ioi	bcs	set	Set								
Notice in the second se	Description of works		14. Taxiing Guidance Signs	TXGS 2-letter	TXGS 3-letter	TXGS 4-letter	TXGS 5-letter	TXGS 6-letter	TXGS 7-letter	TXGS 8-letter	TXGS 9-letter	Foundation for TXGS 2-letter	Foundation for TXGS 3-letter	Foundation for TXGS 4-letter	Foundation for TXGS 5-letter	Foundation for TXGS 6-letter	Foundation for TXGS 7-letter	Foundation for TXGS 8-letter	Foundation for TXGS 9-letter	Hand hole 400x400x500	Skv AFL primary cable	FEP 80	PEP 50	Auxiliary materials for piping	Cable splice kit (5kv AFL Primary Cable)	Plug and receptacle	Earthing terminal	Sub-Total
Item	Ö		14. Taxiin	****	CI	ო	4	Ś	vo	۲	••	٥	2		12	13	4	15	16	11	∞.	6	50	51	52	2	24	





Shanghai Pudong International Airport Project (Airfield Lighting System)

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Item				Foreign Cos	Foreign Cost Component	Local Cost	Local Cost Component	Combined
ö Z	Description of Works	Unit	Quantity	(Y	(Yen)	(China	(China RMB)	Total
-				Rate	Amount	Rate	Amount	China RMB
25	Consumable and miscellaneous materials	Ĭġ			46,052		130,323.37	
36	Spare parts	ŏ	grang			**************************************	428,069.00	
27	Delivery and installation cost	ŏ					530,400,00	
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	Total				1,581,092		9,738,451.59	
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Snangnai Fudong international Airport Froject (Airlield Lighting System)

;		·		Foreign Cos	Foreign Cost Component	Local Cost Component	Component	Combined
o Z	Description of Works	Unit	Quantity	X)	(Yen)	(China RMB)	RMB)	Total
-				Rate	Amount	Rate	Amount	China RMB
S. Wine	15. Wind Direction Indicator Lights							
-	WDIL	lot	73	609,150	1,218,300	1,089.00	2,178.00	
8	Foundation for WDIL	Set	7			3,233.17	6,466.34	
ო	Circular band	Ĭ.	2	-10		35,937.67	71,875.34	
4	Hand hole 400x400x500	bcs	2			1,268.91	2,537.82	
ب	600v XLPE/PVC 25mm²-4c	meter	2,210			72.26	159,694.60	
\$	FEP 50	meter	180			74.28	13,370.40	Depter Section of the Control of the
7	Auxiliary materials for piping	Įŏ.	-				248.40	
ø	Earthing terminal	set	2			6,505.54	13,011.08	
δ	Consumable and miscellaneous materials	lot —					8,016.12	
2	Spare parts	<u>ŏ</u>			121,830	∟B nab∗C4	φ 	
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		Total			1 240 130		01 000 000	
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Shanghai Pudong International Airport Project (Airsield Lighting System)

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No. Description of Works Unit Quantity Rate Amount Rate Amount Amo	L	u e				Foreign Cost Component	Component	Local Coet	Component	Combined
Name Control and monitoring system for tensing area Name Sacration S		Š.	Description of Works	Chit	Quantity	(Yer	('	(China	RMB)	Total
FLO (lighting pole (25m) with lighting fixtures and etc. lot 14 25,615,350 25,615,350 2,211,00 20,525 2,211,00 2,0					I	Rate	Amount	Rate	Amount	China RMB
FLO lighting pole (25m) with lighting fixtures and etc.	L≚.	5. Apro	n Floodlighting							
2 FLO lighting pole (20m) with lighting fixtures and etc. lot 14 3.56,15,350 23,11.00 511.00	***		FLO lighting pole (25m) with lighting fixtures and etc.	ام ت	22			394,977.00	20,538,804.00	
3 FLO control and monitoring system for cargo area lot 1 25.615,350 2.211.00 4 Remote control panel for cargo area lot 1 57,634,500 57,634,500 2,958.00 5 FLO control and monitoring system for reminal area lot 1 25,615,350 2,511,00 2,958.00 8 Remote control panel for general control center set 66 625,950 41,312,700 292.80 9 Switch box for FLO (outdoor type) set 66 625,950 41,312,700 292.80 10 Foundation for FLO lot 66 625,950 41,312,700 292.80 11 Fence for FLO lighting pole lot 66 625,950 41,312,700 292.80 12 Man hole for FLO lighting pole lot 66 625,950 41,312,700 529.80 13 Man hole for FLO lighting pole lot 66 72,612 72.61 12 14 600v XLPEPVC Semm²-4c meter 3,660 7,60 72.61 13 <	. 	Сś	FLO lighting pole (20m) with lighting fixtures and etc.	lot	4			366,342.00	5,128,788.00	
4 Remote control panel for cargo area lot 1 57,634,500 57,634,500 2,958.00 6 Remote control panel for general control center 1 25,615,350 22,11.00 222.80 7 FLO control and monitoring system for maintenance area set 66 625,950 41,312,700 292.80 9 Switch box for FLO lighting pole lot 66 625,950 41,312,700 292.80 10 Foundation for FLO set 66 625,950 41,312,700 292.80 11 Fence for FLO lighting pole lot 66 625,950 41,312,700 592.80 12 Man hole for FLO lighting pole lot 66 625,950 41,312,700 592.80 13 Man hole for FLO lighting pole lot 66 625,950 41,312,700 592.80 13 Man hole for FLO lighting pole lot 66 625,950 41,312,700 72.26 12 13 600v XLPEPVC Samin'-4c meter 16,820 77.90 72.26		Ü	FLO control and monitoring system for cargo area	jo		25,615,350	25,615,350	2,211.00	2,211.00	
5 FLO control and monitoring system for terminal area lot 1 57,634,500 2,958.00 2,958.00 6 Remote control panel for general control center 1 25,615,350 2,511.00 2,211.00 8 Remote control panel for maintenance area set 66 625,950 41,312,700 227.80 9 Switch box for FLO (outdoor type) set 66 625,950 41,312,700 227.80 11 Fence for FLO (sutdoor type) set 66 625,950 41,312,700 227.80 11 Fence for FLO (sutdoor type) lot 66 65 41,312,700 227.80 11 Fence for FLO (sutdoor type) pcs 66 625,950 41,312,700 22,130 12 Man hole for FLO (sundation) pcs 66 65 65,653 25,653 13 Man hole for FLO (sundation) pcs 16 600 XLPEPVC (sunm²-4c meter 3,650 12 1,956 77 12 15 600v XLPEPVC (simm²-4c meter <		4	Remote control panel for cargo area						*********	
6 Remote control panel for general control center 1 25,615,350 2,511.00 3 FLO control and monitoring system for maintenance area lot 6 625,950 41,312,700 292.80 9 Switch box for FLO (outdoor type) set 66 625,950 41,312,700 292.80 10 Foundation for FLO lot 66 625,950 41,312,700 292.80 11 Fence for FLO (outdoor type) set 66 625,950 41,312,700 292.80 11 Fence for FLO (outdoor type) set 66 625,950 41,312,700 63,165.49 4,11 12 Man hole for FLO (outdation) pcs 14 66 625,950 41,312,700 11,936.67 7 13 Man hole for FLO (outdation) pcs 14 600 XLPEPVC 35mm²-4c meter 3,660 6600 16,978.36 1,996 1,998.71 1,998.71 1,998.71 1,998.71 1,998.71 1,998.71 1,998.71 1,998.71 1,998.71 1,998.71 1,998.71		۸i	FLO control and monitoring system for terminal area	<u>5</u>	grand	57,634,500	57,634,500	2,958.00	2,958.00	
7 FLO control and monitoring system for maintenance area lot lot 25,615,350 2,211.00 8 Remote control and monitoring system for maintenance area set 66 625,950 41,312,700 292.80 4,11 9 Switch box for FLO (outdoor type) set 66 625,950 41,312,700 292.80 4,11 10 Foundation for FLO set 66 625,950 41,312,700 292.80 4,11 11 Fence for FLO (ighting pole lot 66 625,950 41,312,700 53,654 4,11 13 Man hole for FLO (ighting pole lot meter 3,660 11,936,67 7,77 14 600 v XLPEPVC Shm²-4c meter 3,660 16,978,60 1,592 1,592 15 600 v XLPEPVC Ism²-4c meter 1,580 2,500 1,592 1,592 16 600 v XLPEPVC Ism²-2c meter 1,660 2,600 2,950 1,592 21 600 v XLPEPVC Ism²-2c meter 3,410 1,005		9	Remote control panel for general control center				n, and delivery to the second	(TERROT GENÇL		
8 Remote control panel for maintenance area set 66 625,950 41,312,700 292.80 10 Foundation for FLO set 66 625,950 41,312,700 292.80 11 Foundation for FLO lot 66 625,950 41,312,700 12,854 4,11 12 Man hole for FLO (ighting pole lot 66 11,936 67 11,936 67 77 13 Man hole for FLO (ighting pole meter 3,660 14 600v XLPE/PVC 35mm²-4c 16,978 36 12 14 600v XLPE/PVC 35mm²-4c meter 16,820 77,90 96,21 19 600v XLPE/PVC 16mm²-4c meter 13,850 82,90 4 4 15 600v XLPE/PVC 16mm²-2c meter 1,650 35,97 4 18 600v XLPE/PVC 16mm²-2c meter 1,650 3,427,050 50,31 15,39 20 600v XLPE/PVC 4mm²-2c meter 1,650 3,427,050 6,50 21,37 21 600v XLPE/PVC 4mm²	-	7	FLO control and monitoring system for maintenance are	lot	e-st	25,615,350	25,615,350	2,211.00	2,211.00	
9 Swirch box for FLO (outdoor type) set 66 625,950 41,312,700 292,80 4,11 10 Foundation for FLO set 66 65,550 41,312,700 12,654 4,11 11 Fence for FLO lighting pole lot 66 53,650 11,936,67 77 12 Man hole for FLO foundation pcs 14 600 x XLPEPVC 35mm²-4c 11,936,67 72 14 600 x XLPEPVC 25mm²-4c meter 3,560 72 96.21 3 15 600 x XLPEPVC 16mm²-4c meter 16,820 77,790 72.26 1,12 16 600 x XLPEPVC 16mm²-4c meter 8,290 8,290 8,63 17 600 x XLPEPVC 16mm²-2c meter 1,680 8,290 8,63 18 600 x XLPEPVC 16mm²-2c meter 1,660 8,63 4,19 20 600 x XLPEPVC 4mm²-2c meter 1,660 3,427,050 6,50 21 600 x XLPEPVC 4mm²-2c meter 3,410 8,1		ø,	Remote control panel for maintenance area						am fevrei ⁿ -2	
10 Foundation for FLO set 66 6 6.165.49 4.1 11 Fence for FLO lighting pole lot 66 19,120.00 1.2 12 Man hole for FLO foundation pcs 14 11,936.67 77 13 Man hole for boundaty point (type-B) pcs 14 15,820 16,820 16,820 17,820 17,22.6 17 14 600v XLPEPVC 35mm²-4c meter 16,820 77,20 12 12 12 15 600v XLPEPVC 16mm²-4c meter 13,850 80 80,31 19 17 600v XLPEPVC 16mm²-2c meter 1,650 82,90 80,31 1,99 18 600v XLPEPVC 16mm²-2c meter 1,650 82,90 82,90 1,050 <td< td=""><td>-</td><td>φ</td><td>Switch box for FLO (outdoor type)</td><td>set</td><td>99</td><td>625,950</td><td>41,312,700</td><td>292.80</td><td>19,324.80</td><td></td></td<>	-	φ	Switch box for FLO (outdoor type)	set	99	625,950	41,312,700	292.80	19,324.80	
Fence for FLO lighting pole lot 66 19,120.00 1,20 Man hole for FLO foundation pcs 66 11,936.67 77 Man hole for FLO foundation pcs 14 16,978.36 2 Man hole for boundary point (type-B) pcs 14 16,978.36 2 600v XLPE/PVC 35mm²-4c meter 16,820 96.21 3 600v XLPE/PVC 16mm²-4c meter 13,850 4 4 600v XLPE/PVC 16mm²-4c meter 13,850 4 56,08 4 600v XLPE/PVC 16mm²-2c meter 1,650 20,51 1,9 1,3 600v XLPE/PVC 16mm²-2c meter 1,660 20,52 20,52 20,52 600v XLPE/PVC 16mm²-2c meter 1,660 20,52 20,52 20,52 600v XLPE/PVC 16mm²-2c meter 4,110 1,005 3,427,050 65,53 600v XLPE/PVC 6mm²-2c meter 3,410 1,005 84,19 600v XLPE/PVC 6mm²-2c meter 3,427,050 65,50		01	Foundation for FLO	set	99	<u>Lagrana</u>		63,165.49	4,168,922.34	
12 Man hole for FLO foundation pcs 66 11,936.67 77 13 Man hole for boundary point (type-B) pcs 14 16,978.36 2 14 600v XLPEPVC 35mm²-4c meter 3,660 72.26 12 15 600v XLPEPVC 25mm²-4c meter 16,820 72.26 12 16 600v XLPEPVC 16mm²-4c meter 13,850 4 4 17 600v XLPEPVC 16mm²-4c meter 8.290 56.08 4 18 600v XLPEPVC 16mm²-2c meter 1,650 56.08 4 19 600v XLPEPVC 16mm²-2c meter 1,660 20.31 11.37 20 600v XLPEPVC 16mm²-2c meter 1,660 20.31 11.39 21 600v XLPEPVC 6mm²-2c meter 4,110 1,050 16.39 22 600v XLPEPVC 6mm²-2c meter 3,410 1,005 84.19 23 600v VCE Fm²-2c meter 3,410 1,005 84.19 <td< td=""><td>411</td><td></td><td>Fence for FLO lighting pole</td><td>lot</td><td>99</td><td>na araba</td><td>- Mayadga-o</td><td>19,120.00</td><td>1,261,920.00</td><td></td></td<>	411		Fence for FLO lighting pole	lot	99	na araba	- Mayadga-o	19,120.00	1,261,920.00	
Man hole for boundary point (type-B) pcs 14 16,978.36 2 600v XLPEPVC 35mm²-4c meter 3,660° 72.26 1,2 600v XLPEPVC 25mm²-4c meter 16,820 50,31 1,9 600v XLPEPVC 16mm²-4c meter 13,850 55,97 4 600v XLPEPVC 16mm²-4c meter 1,650 56,08 4 600v XLPEPVC 16mm²-2c meter 1,650 29,52 20,52 600v XLPEPVC 16mm²-2c meter 1,660 21,37 12,92 600v XLPEPVC 6mm²-2c meter 1,050 12,92 12,92 600v XLPEPVC 6mm²-2c meter 360 3,427,050 6,50 600v XLPEPVC 4mm²-2c meter 3,410 1,005 84,19 600v YLPEPVC 4mm²-2c meter 3,410 84,19 84,19 600v PVC 2mm²-30c meter 3,410 1,53,604,950 6,50 600v PVC 2mm²-30c meter 3,410 1,53,604,950 6,50		12	Man hole for FLO foundation	bcs	99	-	•	11,936.67	787,820.22	
600v XLPEPVC 25mm³-4c meter 3,660³. 96.21 3 600v XLPEPVC 25mm³-4c meter 16,820 72.26 1,2 600v XLPEPVC 16mm³-4c meter 13,850 4 4 600v XLPEPVC 16mm³-4c meter 8,290 56,08 4 600v XLPEPVC 16mm³-2c meter 1,650 29,52 20,52 600v XLPEPVC 16mm³-2c meter 1,660 20,52 16,39 600v XLPEPVC 16mm³-2c meter 1,050 12,37 12,92 600v XLPEPVC 6mm³-2c meter 4,110 1,050 12,37 600v XLPEPVC 4mm²-2c meter 3,410 84,19 12,92 600v YLPEPVC 4mm²-3c meter 3,410 1,005 6,50 600v YLPEPVC 4mm²-2c meter 3,410 1,005 6,50 600v YLPEPVC 4mm²-3c meter 3,410 1,005 6,50 600v PVC 2mm²-3c meter 3,427,050 6,50 6,50 600v FVC 2mm²-3c meter 3,427,050 6,50		<u></u>	Man hole for boundary point (type-B)	bcs	14	· ·	о	16,978.36	237,697.04	
600v XLPE/PVC 25mm²-4c meter 16,820 72.26 1,2 600v XLPE/PVC 16mm²-4c meter 37,790 50.31 1,9 600v XLPE/PVC 16mm²-2c meter 8.290 56.08 4 600v XLPE/PVC 16mm²-2c meter 1,650 29.52 29.52 600v XLPE/PVC 16mm²-2c meter 1,650 21.37 21.37 600v XLPE/PVC 16mm²-2c meter 1,050 16.39 21.37 600v XLPE/PVC 4mm²-2c meter 4,110 84.19 22.32 600v XLPE/PVC 4mm²-2c meter 3,410 84.19 23.427,050 6.50 600v PVC 2mm²-30c meter 3,410 1,005 3,427,050 6.50 Optical fiber cable Sub-Total meter 3,410 1,53,604,950 6.50		7	600v XLPE/PVC 35mm²4c	meter	3,660	, alleri		96.21	352,128.60	
600v XLPE/PVC 16mm²-dc meter 37,790 50,31 1,9 600v XLPE/PVC 10mm²-dc meter 13,850 4 600v XLPE/PVC 25mm²-3c meter 8,290 56.08 4 600v XLPE/PVC 16mm²-2c meter 1,650 29.52 29.52 600v XLPE/PVC 16mm²-2c meter 1,660 21.37 21.37 600v XLPE/PVC 6mm²-2c meter 4,110 16.39 16.39 600v XLPE/PVC 6mm²-2c meter 4,110 1,005 12.92 600v XLPE/PVC 4mm²-2c meter 3,410 1,005 84.19 600v PVC 2mm²-30c meter 3,410 1,005 6.50 Optical fiber cable Sub-Total 1,005 3,427,050 6.50		15	600v XLPE/PVC 25mm²-4c	meter	16,820			72.26	1,215,413.20	
600v XLPE/PVC 10mm²-4c meter 13,850 A 600v XLPE/PVC 25mm²-3c meter 8,290 56.08 A 600v XLPE/PVC 16mm²-2c meter 1,650 29.52 21.37 600v XLPE/PVC 16mm²-2c meter 1,050 16.39 16.39 600v XLPE/PVC 4mm²-2c meter 4,110 12.92 12.92 600v XLPE/PVC 4mm²-2c meter 3,410 1,005 84.19 600v YLPE/PVC 4mm²-3.0c meter 3,410 1,005 3,427,050 6.50 Optical fiber cable Sub-Total 1,505 3,427,050 6.50 36,7		9	600v XLPE/PVC 16mm²4c	meter	37,790			50.31	1,901,214.90	
600v XLPE/PVC 25mm²-3c meter 8,290 56.08 4 600v XLPE/PVC 16nm²-2c meter 1,650 29.52 600v XLPE/PVC 10mm²-2c meter 1,660 21.37 600v XLPE/PVC 4mm²-2c meter 4,110 1,550 600v XLPE/PVC 4mm²-2c meter 3,410 1,005 600v YLPE/PVC 4mm²-30c meter 3,410 1,005 600v YLPE/PVC 4mm²-30c meter 3,410 1,005 600v PVC 2mm²-30c 84.19 84.19 Optical fiber cable 3,410 1,005 3,427,050 6.50 Sub-Total meter 3,410 1,53,604,950 6.50		17	600v XLPE/PVC 10mm²4c	meter	13,850			35.97	498,184.50	
600v XLPE/PVC 16nm²-2c meter 1,650 29.52 600v XLPE/PVC 10nm²-2c meter 1,660 21.37 600v XLPE/PVC 6mm²-2c meter 1,050 16.39 600v XLPE/PVC 4mm²-2c meter 4,110 12.92 600v YLPE/PVC 4mm²-2c meter 360 84.19 600v PVC 2mm²-30c meter 3,410 1,005 3,427,050 6.50 Optical fiber cable Sub-Total 153,604,950 6.50 36.7		<u>«</u>	600v XLPE/PVC 25mm²-3c	meter	8,290	-		86.08	464,903.20	
600v XLPE/PVC 10mm²-2c meter 1,660 21.37 600v XLPE/PVC 6mm²-2c meter 1,050 16.39 600v XLPE/PVC 4mm²-2c meter 4,110 12.92 600v PVC 2mm²-30c meter 360 84.19 Optical fiber cable Sub-Total 1,005 3,427,050 6.50	dere e	61	600v XLPE/PVC 16mm²-2c	meter	1,650			29.52	48,708.00	
600v XLPE/PVC 6mm²-2c meter 1,050 16.39 600v XLPE/PVC 4mm²-2c meter 4,110 12.92 600v PVC 2mm²-30c meter 360 84.19 Optical fiber cable 3,410 1,005 3,427,050 6.50 Sub-Total Sub-Total 153,604,950 36.77		8	600v XLPE/PVC 10mm²-2c	meter	1,660	or a Charles and a		21.37	35,474.20	
600v XLPE/PVC 4mm²-2c meter 4,110 12.92 600v PVC 2mm²-30c meter 360 84.19 Optical fiber cable meter 3,410 1,005 3,427,050 6.50 Sub-Total Sub-Total 153,604,950 36.7			600v XLPE/PVC 6mm²-2c	meter	1,050			16.39	17,209.50	
600v PVC 2mm²-30c meter 360 1,005 3,427,050 6.50 Optical fiber cable Sub-Total Sub-Total 3.410 1,005 3,427,050 6.50		22	600v XLPE/PVC 4mm²-2c	meter	4,110			12.92	53,101.20	
Optical fiber cable 3.410 1,005 3,427,050 6.50 Sub-Total Sub-Total 153,604,950 36,7		23	600v PVC 2mm²-30c	meter	360			84.19	30,308,40	
153,604,950		24	Optical fiber cable	meter	3,410	1,005	3,427,050	6.50	22,165.00	
	<u>L</u>		Sub-Total				153,604,950		36,789,467.10	

Shanghai Pudong International Airport Project (Airfield Lighting System)

Item				Foreign Cos	Foreign Cost Component	المرابعة المرابعة		
S.	Description of Works	Unit	Quantity))	(Yen)	(China RMB)	RMB	Combined
				Rate	Amount	Rate	Amount	China RMB
25	FEP 80	meter	43,140	-		83.53	3 603 484 20	
%	Auxiliary materials for piping	io					90 594 00	
27	Grounding wire H-14	meter	068.8				00.400.00	
28	Cable marker tane		070.0			66.11	7,109,00	
2	יייי ייייי אייייי אייייי אייייי אייייי אייייי איייייי		070.0			15.57	103,073,40	
7	Earthing terminal	Set	104			6,505.54	676,576,16	
8	Excavation	Ê	5,820			32.00	186,240.00	
<u></u>	Sand	È	1,830			265.00	484,950,00	
32	Back filling	Ê	4,010		S-44	21.00	84,210,00	
33	Consumable and miscellaneous materials	jo	,		102,812		492 102 22	
8	Spare parts	lot			15,017,790		2 524 966 80	
35	Pole erection cost with heavy equipment hire cost	ō	ga				223 000 00	
36							25.000.00	
37							in Jermone	
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	Total				168,725,552		45 337 772 88	
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Item	ģ		7. Visual D	>	7	3	4	2	9	7	<u>E</u> 8	<u>8</u>	02	11	12 C	13	14 D	15	91	1.2	\$2	61	50	21	22	23	24
	Description of Works		17. Visual Docking Guidance System	VDGS	VDGS control system	Supporters for VDGS	600v XLPE/PVC 25mm²-2c	600v XLPE/PVC 16mm²-2c	600v XLPE/PVC 10mm²-2c	RS485 cable	Interface cable	SGP 50	Flexible pipe 50	Auxiliary materials for piping	Consumable and miscellaneous materials	Spare parts	Delivery and installation cost										
	Cnit			Set	ļŏ	lot	meter	meter	meter	meter	meter	meter	pcs	jo L	ļŏ	ಶ	jo	<u> </u>									
	Quantity			28	<u></u>	28	310	1,820	300	3,200	4,740	2,360	56			F-104	,										
Foreign Cos	(۲	Rate		9,166,500	51,000,000											-				-							
Foreign Cost Component	(Yen)	Amount		256,662,000	51,000,000				**************************************							30,766,200											
Local Cost	(Chinz	Rate		2,540.00		4,000.00	41.16	29.52	21.37	13.22	23.75	41.49	1,092.31									·	· ·				
Local Cost Component	(China RMB)	Amount		71,120.00		112,000.00		53,726.40	6,411.00		112,575.00			18,478.80	15,520.22		130,000.00										
Combined	Total	China RMB																									

Shanghai Pudong International Airport Project (Airfield Lighting System)

Shanghai Pudong International Airport Project (Airfield Lighting System)

. (Combined	ნ 		3,924.00	5,886,00	2.00	2.00	3,411.00	0.00	00.00	3.00	2.00		a - Charles - All An			he amus nd-di							ana ana	266 76	3.40	80	
	(China RMR)	e Amount		981.00	-2	981.00			.215.00	1,215.00 24,300.00	654.00 40,548,00	47,652.00 47,652.00			CATALON E	O.N.C.COMP.			··		·				92			5
		Amount Rate		5,127,000	7,992,000	9 000,857,91		5,321,250	12,051,900	41,010,000	50,136,300	634,443,750 47,6			<u> </u>													828 222 2001
Foreign Oost Courses	(Yen)	1 -		1,281,750	1,332,000	1,396,500	1,585,200	1,773,750	2,008,650	2,050,500	808,650	634,443,750 63			• • • • • • • • • • • • • • • • • • • •		-	urman-dr-s						<u>-</u>	4 included in the above.	\$ 27 		-
	Quantity	,	System	4	9	12	35	~	9	20	62	prod.													4 inc	260	40	
	Cnit		d Lighting	unit	unit	unit	unit	unit	unit	unit	unit	<u>ĕ</u>			· (mo	om)					ation)				bcs	meter	meter	L
	Description of Works		20. Power Supply, Control and Monitoring System for Airfield Lighting System	Constant current regulator 4 KVA	Constant current regulator 7.5 KVA	Constant current regulator 10 KVA	Constant current regulator 15 KVA	Constant current regulator 20 KVA	Constant current regulator 25 KVA	Constant current regulator 30 KVA	Direction change-over switch	AFL control and monitoring system :	AFL remote control panel for ATC (VFR room)	STB remote control panel for ATC (VFR room)	AFL remote control panel for supervisor (VFR room)	STB remote control panel for supervisor (VFR room)	Local control panel (main AFL substation)	Local control console (main AFL substation)	Graphic panel (main AFL substation)	Data processing unit (main AFL substation)	Programmable logical controller (main AFL substation)	Local control panel (secondary AFL substation)	Burnt-out detection or remote unit (1025 units)	Communication interface, software and etc.	AFL direct speech phone	600v PVC 2mm²-30c	600v PVC 2mm²-10c	Sub-Total
Item	Š		20. Power	5 -4	71	M	4	Ŋ	v	~	00	0	2	pr-d	2	13	4	2	9	12	∞	61	20	21	72	2	24	

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podiguo	Total	China RMB												٠													
, 400	UMB)	Amount	97,578.80	81,299.10	9,385.90	849,500.10	21,357.00	32,470.60		149,000.00																	
Total Cost Commonent	(China RMB)	Rate	6.62	8.39	19.97	83.53					m*ym=300=40***														· · · · · · · · · · · · · · · · · · ·		
ore arename as) (u	Amount	14,813,700					444,411	82,832,220						er ere vis en		•		· · · · · ·	•							
Foreign Cont.	roteign Cost Component (Yen)	Rate	1,005																								
norman in hou	Quantity	<u> </u>	14,740	069.6	470	10,170	4-3	ş s		p4																	
6 mice mar	Ç		meter	meter	meter	meter	lot	lot	ŏ	jo			_,														
Changhat A doing antique and a second control of the control of th	Description of Works		Optical fiber cable	Communication cable for direct speech phone	2-pair communication cable	FEP 80	Auxiliary materials for piping	Consumable and miscellaneous materials	Spare parts	Delivery and installation cost						-											
-	No.		25	56	27	28	53	30	31	32	33	፠	35	36	37	38	36	64	4	42	43	4	45	46	47	48	

Combined	Total	China RMB		00:	.20	.80	01.	.56		16:	00:	08:	.22	00.	00	00:	.64			-				على الماركة ع الماركة على الماركة على ال		·		161
Local Cost Component	(China RMB)	Amount		6,639,885.00	1,264,479.20	4,074,256.80	1,576,958.10	578,696,56	645,177.68	16.696.568	252,623.00	329,149.80	605,015.22	1,410,560,00	6,516,350.00		755,958.64						-				####	25.954.579.91
Local Cost	(Chin	Rate		29.55	88.24	63.72		22,257.56	16,978.36	4,950.11	11.95	15.57	6,505.54	32.00	265.00	21.00		por bagil de Jilley		:				****	2 سامغىيىس			
Foreign Cost Component	(Yen)	Amount		·	n transmi						- Andrews			·	and had a few or the second												:	
Foreign Co		Rate																							٠.	: :		
	Quantity			224,700	14,330	63,940	hod	26	38	181	21,140	21,140	93	44,080	24,590	19,500												
	Unit			meter	meter	meter	Iot	bcs	bcs	pcs	meter	meter	set	m,	Ë	Ë	lot				· · · · · · · · · · · · · · · · · · ·	ng garagit malikan	· ·	:				Total
	Description of Works		21. AFL Main Duct	FEP 80	SGP 100	SGP 80	Auxiliary materials for piping	Man hole type-A	Man hole type-B	Man hole type-D-a	Grounding wire H-14	Cable marker tape	Earthing terminal	Excavation	Sand	Back filling	Consumable and miscellaneous materials			-								
Item	Š		21. AFL	,	2	т	4	vs	9	7	· ·	6	2	=======================================	12	ü	4	15	. 91	17	80	6	20	21	22	23	24	



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Shanghai Pudong International Airport Project (Airfield Lighting System)

Item		-		Foreign Cost Component	Component	Local Cost Component	omponent	Combined
ò	Description of Works	Cait	Quantity	(Yen)	(u	(China RMB)	RMB)	Total
				Rate	Amount	Rate	Amount	China RMB
1. Power	1. Power Distribution System (Main AFL Sub-Station)							
-	Transformer 3-phase 10kv/380-220v 1000KVA	Set	7	5,332,788	10,665,576	3,937.20	7,874.40	
7	High voltage incoming panel 1, 6	panel	7	3,667,860	7,335,720	2,926.80	5,853.60	
м	High voltage VCB panel 2, 7	panel	6	3,667,860	7,335,720	2,926.80	5,853.60	
4	High voltage PCT panel 3, 8	panel	7	3,667,860	7,335,720	2,926.80	5,853.60	
νı	High voltage branch panel 4, 9	panel	7	3,667,860	7,335,720	2,926.80	5,853.60	
Ø	High voltage VCB panel 5, 10	panel	2	3,667,860	7,335,720	2,926.80	5,853.60	
~	High voltage VCB panel 11	panel	P-4	3,667,860	3,667,860	2,926.80	2,926.80	
Ø	Low voltage MCCB panel (power room)	panel	0.	1,749,060	17,490,600	1,230.00	12,300.00	
Ο	Low voltage MCCB panel (CCR room)	panel	20	1,749,060	34,981,200	1,230.00	24,600.00	
2	Bus duct 2000A	meter	15	131,512	1,972,680	530.10	7,951.50	
p-4	600v XLPE/PVC 240mm²-3c	meter	300			414.54	124,362.00	
2	600v XLPE/PVC 150mm²-3c	meter	740			260.46	192,740.40	
ŭ	600v XLPE/PVC 25mm²-2c	meter	320			41.16	13,171.20	
7	600v XLPE/PVC 16mm²-2c	meter	061			29.52	5,608.80	
15	600v XLPE/PVC 10mm2-2c	meter	630			21.37	13,463.10	
16	600v XLPE/PVC 6mm²-2c	meter	290			16.39	4,753.10	
17	600v XLPE/PVC 4mm²-2c	meter	7			12.92	904.40	-
82	600v XLPE/PVC 400mm²-1c	meter	1,190		-	259.98	309,376.20	
<u></u>	Earthing terminal	Set	73		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6,505.54	13,011.08	
20	Cable terminal treatment kit (10kv 3-core Cable)	pcs	4			3,079.70	12,318.80	
7	Consumable and miscellaneous materials	<u>5</u>			59,181		20,929.82	
22	Spare parts	ļ	-		10,348,384			
23	Delivery and installation cost	ō	\$r-4				118,000.00	
24	Testing cost	lot			10,348,384			
	Total	al			126,212,465		913,559,60	
								The second secon

Snangnai rudong international Airport rroject (Airticid Ligating System)

Foreign Cost Component Unit Quantity (Yen)	Rate		lot 2 59,934,456 119,868,912	rvice tank	lot 2 10,830,888 21,661,776	lot 14,153,069	lot 1	lot 11,986,892									Total
Description of Works	•	2. Diesel Engine Generator (Main AFL Sub-Station)	D.E.G. 50Hz 380/220v 1100KVA	Generator panel, DC source panel and service tank	Main tank 20000 litters	Spare parts	Delivery and installation cost	Testing cost									

Shanghai Pudong International Airport Project (Airsield Lighting System)

3

£ 25.5

Combined	Total	China RMB																											
Local Cost Component	(China RMB)	Amount					89,000.00																						89,000.00
Local Cost	(China	Rate																-			-						-		
Component	n)	Amount		124,485,840		12,448,584	,,,,,,, ,,	12,448,584	<u> </u>				-											-		-			149,383,008
Foreign Cost Component	(Yen)	Rate		62,242,920							- 14		***																
	Quantity			7		4																		 					
	Unit		<u>د</u>	lot		<u>ot</u>	101	lot																					
	Description of Works		3. Uninterruptible Power Supply System (Main AFL Sub-Station)	UPS 150KVA x 3	Battery bank x3 and static switch module	Spare parts	Delivery and installation cost	Testing cost					1.																Total
Item	ģ		3. Uninter	p-4	73	'n	4	Ŋ	ø	l >	∞	0	· •	≥ :	= (2 (·	7	2	91	2	<u> </u>	2 2	 3 6	G :	52	13	24	

Shanghai Pudong International Airport Project (Airsield Lighting System)

Item				Foreign Cost	Foreign Cost Component			
ģ	Description of Works	Cait	Quantity	(Yen)	en)	(China RMB)	RMB)	Total
				Rate	Amount	Rate	Amount	China RMB
4. Power	4. Power Distribution System (Secondary AFL Sub-Station)							
:	Transformer 3-phase 10kv/380-220v 800KVA	set	2	4,892,940	9,785,880	3,937.20	7,874.40	
7	High voltage incoming panel 1, 6	panel	7	3,667,860	7,335,720	2,926.80	5,853.60	
M	High voltage VCB panel 2,7	panel	7	3,667,860	7,335,720	2,926.80	5,853.60	
4	High voltage PCT panel 3, 8	panel	77	3,667,860	7,335,720	2,926.80	5,853.60	
V	High voltage branch panel 4, 9	panel	77	3,667,860	7,335,720	2,926.80	5,853.60	,
9	High voltage VCB panel 5, 10	panel	77	3,667,860	7,335,720	2,926.80	5,853.60	
^	High voltage VCB panel 11	panel	g	3,667,860	3,667,860	2,926.80	2,926.80	
	Low voltage MCCB panel (power room)	panel	0	1,749,060	17,490,600	1,230.00	12,300.00	
6	Low voltage MCCB panel (CCR room)	panel	91	1,749,060	27,984,960	1,230.00	19,680.00	
2	Bus duct 1600A	meter	15	94,464	1,416,960	444.60	6,669.00	
	600v XLPE/PVC 240mm²-3c	meter	170		-	414.54	70,471.80	
2	600v XLPE/PVC 95mm²-3c	meter	099			171.41	113,130.60	
ŭ	600v XLPE/PVC 25mm²-2c	meter	300			41.16	12,348.00	
4	600v XLPE/PVC 16mm²-2c	meter	120			29.52	3,542,40	-
15	600v XLPE/PVC 10mm²-2c	meter	450			21.37	9,616.50	•
9!	600v XLPE/PVC 6mm²-2c	meter	240		·	16,39	3,933.60	
1	600v XLPE/PVC 4mm²-2c	meter	09			12.92	775.20	
90	600v XLPE/PVC 300mm²-1c	meter	920			194.76	179,179.20	
61	Earthing terminal	Set	4			6,505.54	26,022.16	
8	Cable terminal treatment kit (10kv 3-core Cable)	bcs	7			3,079.70	6,159.40	
77	Consumable and miscellaneous materials	<u>0</u>	•		42,509	P44:	12,955.44	
22	Spare parts	<u>to</u>	Quind		9,560,790		· ·	
23	Delivery and installation cost	ঠ	-		;		118,000.00	
24	Testing cost	lot	-		9,560,790	•	,	-
	Total				116,188,949		634,852.50	



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Shanghai Pudong International Airport Project (Airsield Lighting System)

Combined	Total	China RMB											t														
Local Cost Component	(China RMB)	Amount			*****			234,000.00			10 TO THE PARTY OF																234,000.00
Local Cos	(Chin	Rate																									
Component	(u	Amount		95,901,624	•	21,661,776	11,756,340		9,590,163		To the same of					<u></u>											138,909,903
Foreign Cost Component	(Yen)	Rate		47,950,812		10,830,888					·									······································				-			
	Quantity			7		2		-																			
	Unit			lot		lot	jot	lot	lot																		
Foreign Cost Component L	Description of Works		5. Diesel Engine Generator (Secondary AFL Sub-Station)	D.E.G. 50Hz 380/220v 880KVA	Generator panel, DC source panel and service tank	Main tank 20000 litters	Spare parts	Delivery and installation cost	Testing cost																-		Total
Item	Š.		5. Diesel I		7	'n	4	٠,	9	۲	••	٥	01	 2	ដ	14	15	91	2	<u>0</u>	61	20	21	22	23	24	

Snangnai rudong international Airport Project (Airfield Lighting System)

ltem				Foreign Cos	Foreign Cost Component	Local Cost	Local Cost Component	Combined
o Z	Description of Works	Chit	Quantity	<i>ک</i>)	(Yen)	(China	(China RMB)	Total
-				Rate	Amount	Rate	Amount	China RMB
6. Unint	6. Uninterruptible Power Supply System (Secondary AFL Sub-Station)	-Station)						
	UPS 100KVA x 3	ত	2	41,496,264	82,992,528			
13	Battery bank x3 and static switch module							
ო	Spare parts	jo	*		8,299,253			
4	Delivery and installation cost	<u>101</u>					89.000.00	
ς,	Testing cost	jot			8,299,253			
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61								
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21				-				
22					<u> </u>			-
23						•		
24								
	Total				99 591 034		89 000 00	
			,				2000000	j



Shanghai Pudong International Airport Project (Airsield Lighting System)

Combined Total	China RMB																		-								
Somponent RMB)	Amount		4,407.00		-			266.76	60,616.80	17,175.20	52,521.40	\$22,897.80	13,146.00	19,990.72													691.021.68
Local Cost Component (China RMB)	Rate		4,407.00				y garram y Trongello	69.99	84.19	61.34	8.39	83.53	nghaghajina i	ery dynami	remen m' re												
Foreign Cost Component (Yen)	Amount		20.					20.				-4.							-								
Foreign Cost (Y	Rate		l included in Item 20.					included in Item 20.															·				
Quantity	-							4	720	280	6,260	6,260	*-	ş-d											-		
Unit		H.	101		,			bcs	meter	meter	meter	meter	lot	lot													
Description of Works		7. Control and Monitoring System for Power Distribution System	Control and monitoring system:	Power remote control panel (main AFL substation)	Power graphic panel (main AFL substation)	Data processing unit (main AFL substation)	Power local control panel (main AFL substation)	Power direct speech phone	600v PVC 2mm²-30c	600v PVC 2mm²-20c	Communication cable for direct speech phone	FEP 80	Auxiliary materials for piping	Consumable and miscellaneous materials													Total
Item No.		7. Control		73	'n	4	Ś	9	~	••	0	0	,	2	5	14	15	91	12	81	61	30	77	22	23	24	

Shanghai Pudong International Airport Project (Airfield Lighting System)

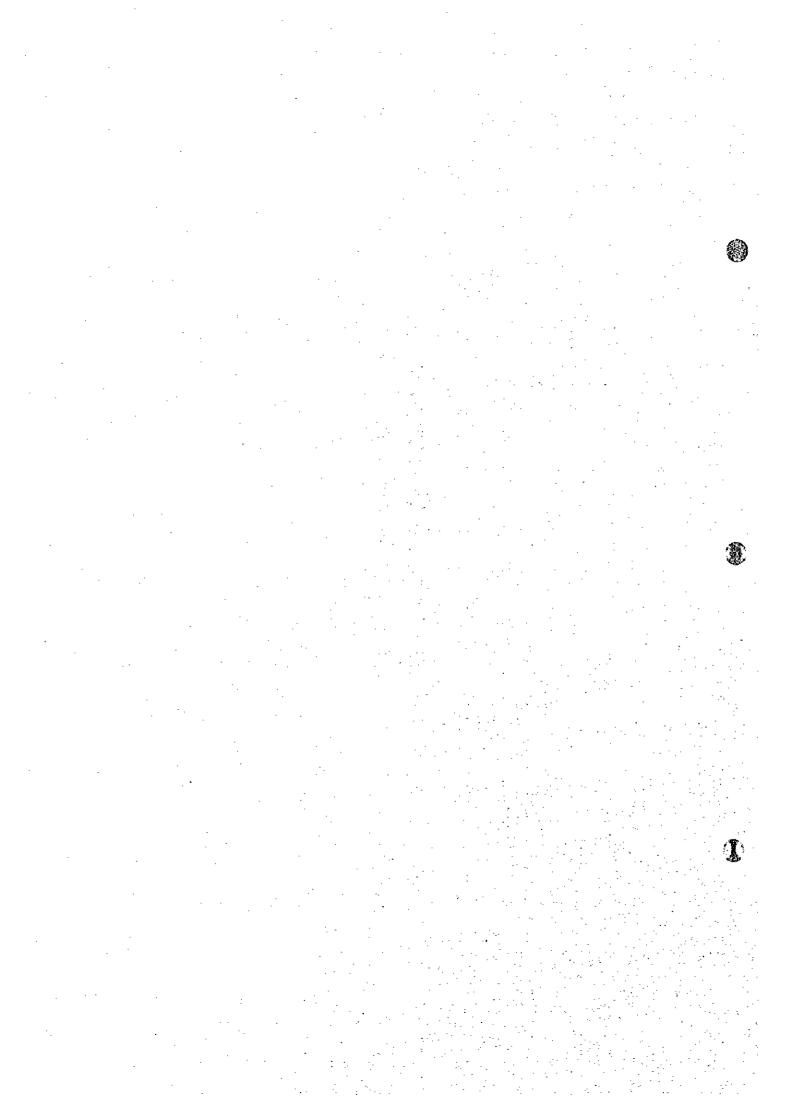
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Table of Complex Construction Cost-Unit Rate Estimate



PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System) Item No.: 1
Description: Precision Approach Lighting System

 					37.5	Electri-	Special	Common				pyle: Y
 .		Complex	Local	Total M/D		cian	craftsmen	labour	Surveyor	Steel setter	Form	<u> </u>
Š	Description	Unit Cost	Component		Unit							Remark
					cost	114	63	52	342	73	73	AZ.R.+
		(Chinese RMB)	Amount	Amount	Q/W		-					773.0
-	PALS surface-type white	261.24	L	261.24		066.0	0.600	1.140	0.150			Do and about
7	PALS surface-type red	261.24		261.24		0.990	009'0	1.140	0.150			
m	PALS elevated-type white	2,768.30	2,510,00	258.30		0.750		1.350	0.300			<i>-</i>
ಶ	PALS elevated-type red	2,768.30	2,510,00	258.30		0.750		1.350	0.300			
47	Foundation for PALS center line barrette	27,411.23	24,874.93	2,536.30		10.425	5.179	9.712		1.700	5.376	5.376 Annex-1
છ	Foundation for PALS side row barrette	23,498.36	21,632.56	1.865.80		6.900	4.317	7.370		1.209	4.599	4.599 Annex-2
1	Foundation for PALS 150m cross bar	103,762.41	95,302.02	8,460.39		36.975	22.411	30.271		5.616	11.634	11.634 Annex-3
00	Foundation for PALS 300th cross bar	103,033.77	93,991.49	9,042.28		37.860	26.719	29.881		6.665	13.734	13.734 Annex-4
٥	Foundation for PALS surface-type	1,355.93	29.696	386.26		0.915	0.880	1.539	0.300	0.051	0.550	0.550 Annex-5
2	Transformer housing box	2,519.96	2,331.50	188.46		0.600	0.143	1.428			0.504	0.504 Annex-6
	Skv AFL primary cable	6.50		6.50	•	0.057						
~	FEP 80	83.53	69.16	.14.37		0.126						Annex-7
3	13 FEP 50	74.28	61.96	12.32		0.108						Annex-8
4	14 600v AFL secondary cable 30m with plug	194.94		194.94		1.710						
5	15 600v AFL secondary cable 40m with plug	214.32		214.32		1.880					-	
9	16 SGP 50	85.13	63.92	21.21		0.186						Annex-10
1	17 Flexible pipe 50 (stainless)	1,092.31	1,067.00	25.31	· · · ·	0.222						
00	Auxiliary materials for piping											
6	19 Cable splice kit (5kv AFL primary cable)	333.40	265.00	68.40		009.0						
2	Plug and receptacle	136.80		136.80		1.200						
7	Earthing terminal	6,505.54	3,929.26	2,576.28	,	17.700		10.740		-		Annex-11
22	Consumable and miscellaneous materials	·										
B	Spare parts							~===.				
24												

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)

Item No. : 2

Description: Sequence Flashing Lights

No. Description Complex Local Total MD Gin Complex Complex Complex Complex Complex Complex Complex Continues RMS						Type	Electri.	Special	Connmon				
Chinese RMB Amount Amount MD Cost 114 63 52 342 73 73 73 73 73 73 73 7			Complex	Local	Total M/D		cian	craftsmen	labour	Surveyor	Steel setter	Forn	
Chinese RMB Amount Cost 114 63 52 342 73 73	ò		Unit Cost	Component		Unit							Remark
Chinese BMB Amount Amount Amount Amount BMB Amount Amount BMB Amount Amount BMB Amou						cost	114	63	52	342	5	73	
SFL clevated-type with control cabinet 322.70 1.050 1.950 0.300 Central control cabinet \$70,00 \$70,00 5.000 5.000 0.300 Hand about cot cabinet \$70,00 \$70,00 \$70,00 0.094 0.182 Hand about cot cabinet \$70,00 \$1.118.75 \$150,16 0.730 0.081 0.321 600v XLPEPVC 35mm24c \$6.21 70,90 \$5.31 0.168 0.168 600v XLPEPVC 16mm24c \$35,91 \$1,107 0.129 0.105 600v XLPEPVC 16mm24c \$35,91 \$1,107 0.129 0.105 600v VC 4mm2.30c 78,14 \$1,80 \$26,34 0.231 600v PVC 4mm2.30c 78,14 \$1,80 \$26,34 0.231 Special 6-core cable 83.53 69,16 10.26 0.990 FEP 80 74,37 61,96 12,32 0.108 Fer 9 80 74,38 61,96 12,32 0.108 Far 1 80 83.53 61,96 12,37 0.108			(Chinese RMB)	Amount	Amount	M/D							
Central control cabinet 570,00 5000 5,000 Foundation for control cabinet 372,10 335.50 38.60 0.094 0.182 Ham Abole 400x400x300 1,268.91 1,118.75 150,16 0.750 0.081 0.331 600v XLPEPVC 35mm2-4c 96.21 70.90 23.31 0.122 0.168 600v XLPEPVC 35mm2-4c 80.31 35.60 14.71 0.129 0.168 600v XLPEPVC 35mm2-4c 80.31 35.97 24.00 11.97 0.105 600v XLPEPVC 36mm2-4c 80.31 35.97 24.00 11.97 0.105 600v XLPEPVC 16mm2-4c 80.31 77.00 31.13 0.273 0.105 600v VLPEPVC 6mm2-3c 78.14 \$1.80 26.34 0.231 0.105 600v VLPEPVC 6mm2-3c 10.25 0.231 0.126 0.126 600v VLPEPVC 6mm2-3c 10.25 0.102 0.126 0.126 FEP 50 83.53 69.16 14.37 0.126 0.126 FEP 50		SFL elevated-type with control cabinet	323.70		323.70		1.050		1.950	0.300			
Foundation for control cabinet 392,10 355.50 38.60 0.094 0.182 Hand hole 400x400x500 1.268.91 1.118.75 150.16 0.750 0.081 0.331 600 XLPEPVC 35mm24c 72.26 73.31 0.128 600 XLPEPVC 35mm24c 72.26 73.31 0.1471 0.129 600 XLPEPVC 10mm24c 35.31 135.60 14.71 0.129 600 VLPEPVC 10mm24c 35.31 135.60 11.97 0.105 600 VLPEPVC 10mm24c 108.13 77.00 31.13 0.273 600 VLPC 4mm2-30c 108.13 77.00 31.13 0.273 600 VPC 4mm2-30c 108.13 77.00 11.97 0.105 600 VPC 4mm2-30c 108.13 77.00 11.97 0.105 600 VPC 4mm2-30c 600 83.53 69.16 1.4.37 0.126 FEP 50 74.28 61.96 12.32 0.108 FEP 50 74.28 61.96 12.32 0.108 FEP 50 17.700 10.740 Consumble and miscellaneous materials Spare parts	~	Central control cabinet	570.00		570.00		5.000		**************************************				
Hand hole 400x400x500 Li268.91 Li18.73 Goov XLPEPVC 35mm24c Goov XLPEPVC 15mm24c Goov XLPEPVC 15mm24c Goov XLPEPVC 10mm24c Goov XLPEPVC 10mm24c Goov YC 4mm2-30c Goov PVC 4mm2-30c Rid 51.80 Sacial 6-core cable REP 80 Radiairy materials for piping Earthing terminal Goost pvC 4mm3 are makerials Goost pvC 4mm3 are makerials Goost pvC 4mm3-30c FEP 80 FEP 80 FEP 80 Farthing terminal Goost pvC 4mm3-30c Goost pvC 4mm3-30c Fer 80 Fer 80	m	Foundation for control cabinet	392.10		38.60			0.094	0.182			0.3.8	Appex-12
600v XLPEPVC 35mm2-4c 600v XLPEPVC 25mm2, c 600v XLPEPVC 25mm2, c 600v XLPEPVC 16mm2-4c 600v XLPEPVC 16mm2, 20 600v XLPEPVC 16mm2, 20 600v VC 4mm2, 20 600v PVC 4mm2, 20 600v	₹.	Hand hole 400x400x500	1,268.91	1,118.75	150.16		0.750	0.081	0.331			0.580	Annex-13
600v XLPEPVC 25mm24c 72.26 53.10 19.16 0.168 600v XLPEPVC 16mm24c 50.31 35.60 14.71 0.129 600v XLPEPVC 16mm24c 53.97 24.00 11.97 0.105 600v XLPEPVC 10mm24c 35.97 24.00 11.97 0.105 600v PVC 4mm2-20c 78.14 51.80 26.34 0.231 5pecial 6-core cable 10.26 10.26 10.26 FEP 50 74.28 61.96 12.37 0.106 Auxiliary materials for piping 6,505.54 3,929.26 2,576.28 17.700 10.740 Consumable and miscellaneous materials 5.505.24 3,929.26 2,576.28 17.700 10.740	'n	600v XLPE/PVC 35mm2-4c	96.21	70.90	25.31		0.222						-
600v XLPEPVC I6nm24c 50.31 35.60 14.71 0.129 600v XLPEPVC I6nm24c 35.97 24.00 11.97 0.105 600v PVC 4mm2-30c 10.81.3 77.00 31.13 0.273 600v PVC 4mm2-20c 78.14 51.80 26.34 0.231 Special 6-core cable 10.26 10.26 0.080 FEP 80 83.53 69.16 14.37 0.126 Awxiniary materials for piping 6,505.54 3,929.26 2,576.28 17.700 10.740 Consumable and miscellaneous materials Spare parts 17.700 10.740 10.740	છ	600v XLPE/PVC 25mm2-4c	72.26		19.16		0.168						
600v XLPEPVC 10nm24c 35.97 24.00 11.97 0.105 600v PVC 4mm2-30c 10.8.13 77.00 31.13 0.273 600v PVC 4mm2-30c 77.01 31.13 0.231 600v PVC 4mm2-20c 78.14 51.80 26.34 0.231 Special 6-core cubie 10.26 10.26 0.090 FEP 80 83.53 69.16 14.37 0.126 PEP 50 74.28 61.96 12.32 0.108 Auxiliary materials for piping 6,505.54 3,929.26 2,576.28 17.700 10.740 Consumable and miscellaneous materials Spare parts 17.700 10.740	~	600v XLPE/PVC 16min2-4c	50.31	35.60	14.71		0.129						
600v PVC 4mm2-30c 600v PVC 4mm2-20c 78.14 51.80 60.31 50.23 600v PVC 4mm2-20c 78.14 51.80 26.34 0.231 60.90 10.26 10.26 10.26 10.26 10.36 69.16 11.37 6.505.54 3.929.26 2.576.28 17.700 10.740	∞	600v XLPE/PVC 10mm2-4c	35.97	24.00	11.97		0.105						
600v PVC 4mm2-20c 78.14 \$1.80 26.34 0.231 Special 6-core cable 10.26 0.090 0.090 FEP 80 83.53 69.16 14.37 0.126 FEP 50 74.28 61.96 12.32 0.108 Auxiliary materials for piping 6,505.54 3,929.26 2,576.28 17.700 10.740 Consumable and miscellaneous materials Spare parts 17.700 10.740	0	600v PVC 4mm2-30c	108,13		31.13		0.273	- W					-
Special G-core cable 10.26 0.090 FEP 80 83.53 69.16 14.37 0.126 FEP 50 74.28 61.96 12.32 0.108 Auxiliary materials for piping 6,505.54 3,929.26 2,576.28 17.700 10.740 Consumable and miscellaneous materials Spare parts 17.700 10.740	2		78.14		26.34		0.231					and the same	٠.
FEP 80 83.53 69.16 14.37 0,126 FEP 50 74.28 61.96 12.32 0,108 Auxiliary materials for piping 6,505.54 3,929.26 2,576.28 17.700 10.740 Consumable and miscellaneous materials Spare parts 17.700 10.740	~	Special 6-core cable	10.26		10.26		0.090				-		
FEP 50 74.28 61.96 12.32 0.108 Auxiliary materials for piping 6,505.54 3,929.26 2,576.28 17.700 10.740 Earthing terminal 6,505.54 3,929.26 2,576.28 17.700 10.740 Spare parts Spare parts		FEP 80	83.53		14.37		0.126						Annex-7
Auxiliary materials for piping Earthing terminal Consumable and miscellaneous materials Spare parts	<u>~</u>	FEP 50	74.28		12.32		0.108					*****	Annex-8
Earthing terminal Consumable and miscellaneous materials Spare parts	4	Auxiliary materials for piping										- ,	
Consumble and miscellaneous materials Spare parts	2	Earthing terminal	6,505.54	3,929.26	2,576.28		17.700		10.740			•	Appex-11
Spare parts	9	Consumable and miscellaneous materials						*•				•	
	1	Spare parts											-
	8					! .	:	:	:	·			
	6							-					
	20												
	21					:			-		:		•
23	22											3.45	
22	23												
	24						ert-de-ser					-54	



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Complex Construction Cost - Unit Rate Estimate

Complex Cos PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System) Item No.: 3

Description: Precision Approach Path Indicator

			-		Type	Cleatri	Checin	2021.00				in the second
		Complex	Local	Total M/D		cian	craftsmen	labour	Surveyor	Surveyor Steel setter	Form	<u></u>
ŝ	Description	Unit Cost	Component		C.n.it							Remark
					COST	114	63	52	342	73	73	nge sebe
		(Chinese RMB)	Amount	Amount	Q/M							
_	PAPI	1,067.40		1,067.40		2.400		5.400	1.500			
~	Foundation for PAPI	2,064.14	1,768.86	295.28		0.930	0.498	1.454		0.242	0.885	0.885 Annex-14
m	Skv AFL primary cable	6.50		6.50		0.057						
4	FEP 80	83.53	69.16	14.37		0.126						Annex-7
v	Auxiliary materials for piping											
৩	Cable splice kit (5kv AFL primary cable)	333.40	265.00	68.40		0.600						##P\$2
1	Plug and receptacle	136.80		136.80		1.200						
⇔	Earthing terminal	6,505.54	3,929.26	2,576.28		17.700		10.740				Annex-11
0	Consumable and miscellaneous materials											****
9	10 Spare parts											A-4-6-20
Ξ		•										-3. E-1
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15										بجمون		
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PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System) Item No.: 4
Description: Runway Edge Lights

				- ype	Electri-	Special	Common				•
	Complex	Local	Total M/D		cian	craftsınen	labour	Surveyor	Steel setter	Form	
Description	Unit Cost	Component		Umit							Remark
				cost	7	63	25	342	73	7.	
	(Chinese RMB)	Annount	Amount	Ø.							ang we
REDL elevated-type white/white	2,135.30	1,877.00	258,30		0.750		1 350	0 300			
REDL elevated-type white/yellow	2,135.30	1,877,00	258.30		0.750		1 250	0000			
REDL surface-type white/white	261.24		26126		0000	0090	200	200.0			
REDL surface-type white/yellow	261.24		26124		0000	009	2	0.130			-
Foundation for REDL elevated-type	743.92	551.30	192.62		009 0	0.144	438	20.70	0	Č.	,
Foundation for REDL surface-type	1,355.93	19.696	386.26		0.915	0.880	1.539	0300		200.0	0.504 Annex-13
Transformer housing box	2,519.96	2,331.50	188.46		0.600	0.143	1.428			2000	0.530 Amex-5
5kv AFL primary cable	26.00	19.50	6.50		0.057	_					O VIIICA - O
	74.28	61.96	12.32		0.108	-					9 A
600v AFL secondary cable 10m with plug	156.18		156.18		1.370						o-valley
600v AFL secondary cable 20m with plug	175.56		175.56		1.540						
	85.13	63.92	21.21		0.186						•
Flexible pipe 50 (stainless)	1.092.31	1,067.00	25.31		0.222		A an above				Annex-10
Auxiliary materials for piping					-		-				
Cable splice kit (Skv AFL primary cable)	333.40	265.00	68.40		0.600			-		•	
Plug and receptacle	136.80		136,80		1.200						
Earthing terminal	6,505,54	3.929.26	2.576.28	-	17 700		7				- ;
18 Consumable and miscellaneous materials		•		-	-		?				Annex-11
						. Transcript					
	• ·	-	=		· .	: .			-	-	
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	-	-	=		-	-		•			

Complex Construction Cost - Unit Rate Estimate

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System) Item No.: 5
Description: Runway Threshold Lights

					TVD	Flectri	Special	Common				
		Complex	Local	Total M/D	•	cian	craftsmen	labour	Surveyor	Surveyor Steel setter	Form	
Š.	Description	Unit Cost	Component		Unit							Remark
					cost	114	63	52	342	73	73	
		(Chinese RMB)	Amount	Amount	M/D							
	RTHL surface-type green	261.24		261.24		066'0	0.600	1.140	0.150			
7		3,028.30	2,770.00	258.30		0.750		1.350	0.300			
m		1,355.93	29.696	386.26		0.915	0.880	1.539	0.300	0.051	0.550	0.550 Annex-5
4		743.92	551.30	192.62		0.600	0.144	1.438		0.049	0,504	0.504 Annex-15
·>	Transformer housing box	2,519.96	2,331.50	188.46		0.600	0.143	1.428			0.504	0.504 Annex-6
ত	5kv AFL primary cable	6.50		6.50		0.057						
^	FEP 80	83.53	69.16	14.37		0.126						Annex-7
∞	600v AFL secondary cable 10m with plug	156.18		156.18		1.370						
0	600v AFL secondary cable 20in with plug	175.56		175.56		1.540					•	
	0 600v AFL secondary cable 30m with plug	194.94		194.94		1.710						·
=	600v AFL secondary cable 40m with plug	214.32		214.32		1.880						
	12 600v AFL secondary cable 50m with plug	233.70		233.70		2.050						
2	13 SGP 80	107.36	81.02	26.34		0.231		-				Annex-9
7	14 SGP 50 .	85.13	63.92	21.21		0.186						Annex-10
	15 Flexible pipe 80 (stainless)	2,275.68	2,236,00	39.68		0.348		-				
<u> </u>	16 Flexible pipe 50 (stainless)	1,092.31	1,067.00	25.31		0.222						
	17 Auxiliary materials for piping			******************************				uc	-303-1984 s			
	18 Cable splice kit (5kv AFL Primary Cable)	333.40	265.00	68.40		009.0					وســـيــ	
<u>~</u>	19 Plug and receptacle	136.80		136.80		1.200						
<u>~</u>	20 Earthing tenninal	6,505.54	3,929,26	2,576.28		17.700		10.740		·		Annex-11
~	21 Consumable and miscellaneous materials	:	*****	~~~~							×4-2-	
22	2 Spare parts				-1-2-2				,			
2	m							مناسب واستان				
24	4											

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)

Item No.: 6

Description: Runway End Lights

Remark	0.550 Amex-5 0.504 Amex-6	Annex-9 Annex-10	
Form	0.550	-	THE CHARGE AND
Steel setter	0.051		
Surveyor (0.150	Takaning Makasa Amerikan Makasa Makasa Amerikan Angara Amerikan Angara Amerikan Angara Amerikan Angara Amerika	
Common labour 52	1.140		
Special craftsmen 63	0.600	g ngàng 30, gina kina 10, kina kina kina kina kina kina kina kina	
Electri- cian 114	0.990 0.915 0.600 1.540	1.880 2.050 0.231 0.186 0.348	1.200
Type Unit cost			
Total M/D Amount	261.24 386.26 188.46 175.56	214.32 233.70 26.34 21.21 39.68	136.80
Local Component Amount	6,612.00 969.67 2,331.50	81.02 63.92 2,236.00 1,067.00	
	6,873.24 1,355.93 2,519.96 175.56 194.94	214.32 233.70 107.36 85.13 2.275.68 1.092.31	136.80
Description	KENL surface-type red Foundation for RENL Transformer housing box 600v AFL secondary cable 20m with plug 600v AFL secondary cable 30m with plug	6000 AFL secondary cable 40m with plug 6000 AFL secondary cable 50m with plug SGP 80 SGP 50 Flexible pipe 80 (stainless) Flexible pipe 50 (stainless) Auxiliary materials for piping	Plug and receptacle Consumable and miscellaneous materials Spare parts
Š.	~ 17 18 18 N	0 7 8 9 2 2 2	23 22 22 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24





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CHARGE CO.

Complex Construction Cost - Unit Rate Estimate PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)

Item No. : 7

Description: Runway Center Line Lights

	•	Remark					0.550 Annex-5	0.504 Annex-6		Annex-7		Annex-10	·····				Annex-11	مالحقار وسعاد										
i.	roun		73				0.550	0.504																	,			
	Steel setter		73				0.051											<u> </u>		·								
	Surveyor		342		0.150	0.150	0.300																			~~~		
Common	iabour		52		1.140	1.140	1.539	1.428									10.740											
Special	crattsmen		63		0.600	0.600	0.880	0.143											-						. :			
Electri-	cian		114		0.990	0.990	0.915	0.600	0.057	0.126	1.880	0.186	0.222		0.600	1.200	17.700											
Type		Chir.	cost	M/D		~===		- -							• ;												,	
7/7/	Total M/D			Amount	261.24	261.24	386.26	188.46	6.50	14.37	214.32	21.21	25.31		68.40	136.80	2,576.28	-		A. 370-38.4					-			
	Local	Component		Arnount			29.696	2,331.50		69.16		63.92	1,067.00	<u> </u>	265.00		3,929.26							- 104 -	-			
	Complex	Unit Cost		(Chinese RMB)	261.24	261.24	1,355.93	2,519.96	6.50	83.53	214.32	85.13	1,092.31		333.40	136.80	6,505.54				GARAGE STATE OF THE STATE OF TH							
		Description			RCLL white/white	RCLL white/yellow	Foundation for RCLL	Transformer housing box	5kv AFL primary cable	FEP 80	600v AFL secondary cable 40m with plug	SGP 50	Flexible pipe 50 (stainless)	Auxiliary materials for piping	Cable splice kit (5kv AFL Primary Cable)	Plug and receptacle	Earthing terminal	14 Consumable and miscellancous materials	15 Spare parts									
		ģ				7	3	4	8	૭	7	00	0	2		2	5	7	~~	2	~	8	<u>۶</u>	20	7	22	23	24

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System) Item No.: 8

Description: Runway Touchdown Zone Lights

	a jene 18.	Remark	FTA 5 785			0 \$50 Appear	0.504 Appea		Anna 4		V			AT STATE	ore ich ed	tav att dans	Annex-11			(1 m. 100<u>m</u>		race.	e e e e e	e ros	OBKRES A	: 1		O. C. C. C.	
	Form		23			0.550	0 504	5		<u> </u>						~~~	<u> </u>					:	** dada *******************************						
	Steel setter		73			0.051				-		-																	
	Surveyor		342		0.150	0.300											. — 		_										
Common	labour		25		1.140	1.539	1.428					-	-			8	0,74			-		:	~~~						
Special	craftsmen		63		0.600	0.830	0.143									*******	an an agus an					-							
Electri-	cian		114		0.990	0.915	0.600	0.057	0.108	1.710	0.186	0.222	•	0.600	1 200	1 1	2		-		-			:		1			-
Type		Unit	cost	M/D			~~~~								•				*	**************************************		-			-		 ,		
	Total M/D			Amount	261.24	386.26	188.46	6.50	12.32	194.94	21.21	25.31		68.40	136 80	00 965 6	2									;			
	Local	Component		Amount		79.696	2,331,50		61.96		63.92	1,067.00		265.00		207076				-			:	.		:			
		Unit Cost		(Chinese RMB)	261.24	1,355.93	2,519.96	6.50	74.28	194.94	85.13	1,092.31		333.40	136.80	25 SOS S	-							***************************************		-			
		Description			RTZL white	Foundation for RTZL	Transformer housing box	5kv AFL primary cable	FEP SO	600v AFL secondary cable 30m with plug	SGP 50	Flexible pipe 50 (stainless)	Auxiliary materials for piping	Cable splice kit (5kv AFL Primary Cable)	Plug and receptacle	Earthing tenninal	Consumable and miscellaneous materials	Spare parts								the material control of the second of the se			
		Š	-			2	m	4	S	V	^	00	0	2			5	7	5	9		8	0	5	3 3	7	22	23	24







Complex Construction Cost . Unit Rate Estimate

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)

Item No. : 9 Description : Taxiway Center Line Lights

Component Control M/D Cian Cenfisment Iabour Surveyor Steel setter Form Component Component Component Claim Control M/D Cost C						Type	Electri-	Special	Common				
Chinece RAUB)			Complex	Local	Total M/D		cian	craftsmen	labour	Surveyor	Steel setter	Form	
(Chinese RAMB) Amount Amount MID cost 114 63 52 342 73 77 bases) 3,042.24 2,782.00 261.24 0,990 0,600 1,140 0,150 0,150 0,140 0,150 0,150 0,140 0,150 0,150 0,140 0,150 0,150 0,140 0,150 0,140 0,150 0,150 0,140 0,150 0,150 0,140 0,150	ģ		Unit Cost	Component		Cair.	-						Remark
Chintess RAMB Amount						cost	114	63	52	342	73	73	
base) 3,043.24 2,782.00 261.24 0,990 0,600 1,140 0,150 (1,140 0,15			(Chinese RMB)	Amount	Amount	Q/W							
see) 3,043.24 2,782.00 261.24 0,990 0,600 1,140 0,150 (1,100 2,132,132,132,134,124 3,480.00 261.24 0,990 0,600 1,140 0,150 (1,100 2,132,131,124 3,480.00 261.24 0,990 0,600 1,140 0,150 (1,100 2,132,132,132,132,133,132,133,133,133,13		TCLL narrow green/yellow (with shallow base)	3,043.24	2,782.00	261.24		066.0	0.600	1.140				
(a) 3,043.24 2,782.00 261.24 0.990 0,600 1,140 0,150 2,174 2,480.00 2,6124 0,990 0,600 1,140 0,150 2,174 2,1	~	TCLL narrow green/green (with shallow base)	3,043.24	2,782.00	261.24		0.990	0.600	1.140				
) 3,741.24 3,480.00 261.24 0.990 0.600 1.140 0.150 3,741.24 3,480.00 261.24 0.990 0.600 1.140 0.150 3,741.24 3,480.00 261.24 0.990 0.600 1.140 0.150 3,043.24 2,782.00 261.24 0.990 0.600 1.140 0.150 3,043.24 2,782.00 261.24 0.990 0.600 1.140 0.150 310.85c) 261.24 2,512.4 0.990 0.600 1.140 0.150 310.85c) 261.24 2,512.4 0.990 0.600 1.140 0.150 310.85c) 261.24 2,512.4 2,512.4 0.990 0.600 1.140 0.150 310.85c) 386.26 0.991 0.600 1.140 0.150 310.85c) 386.26 0.991 0.600 1.140 0.150 310.85c) 386.26 0.992 0.600 1.140 0.150 310.85c) 386.26 0.993 0.900 0.601 1.140 0.150 310.85c) 386.26 0.993 0.900 0.001 3.387.22 3.387.	<u>در؛</u>	TCLL wide green/green (with shallow base)	3,043.24	2,782.00	261.24		066.0	009'0	1.140				
3,741.24 3,480.00 261.24 0.990 0.600 1.140 0.150 3,043.24 2,782.00 261.24 0.990 0.600 1.140 0.150 hallow base) 261.24 0.990 0.600 1.140 0.150 allow base) 261.24 0.990 0.600 1.140 0.150 allow base) 261.24 0.990 0.600 1.140 0.150 llow base) 261.24 0.990 0.600 1.140 0.150 llow base) 261.24 0.990 0.600 1.140 0.150 low base) 261.24 0.990 0.600 1.140 0.150 k housing box 3.387.22 2.960.40 426.82 0.918 0.880 1.539 0.001 1,268.91 1,118.75 180.46 426.82 0.918	4	TCLL narrow green/green (with deep base)	3,741.24	3,480.00	261.24		0.990	0.600	1.140	0.150			
3,043,24 2,782,00 261,24 0,990 0,600 1,140 0,150 hallow base) 261,24 261,24 0,990 0,600 1,140 0,150 allow base) 261,24 261,24 0,990 0,600 1,140 0,150 allow base) 261,24 261,24 0,990 0,600 1,140 0,150 Illow base) 261,24 261,24 0,990 0,600 1,140 0,150 Illow base) 261,24 261,24 0,990 0,600 1,140 0,150 Illow base) 1,355,03 969,67 386,26 0,990 0,600 1,140 0,150 A housing box 3,387,22 2,604,40 426,82 0,991 0,890 1,406 0,130 A housing box 3,387,22 2,604,40 426,82 0,991 0,600 0,143 1,428 1,230 A construction box 1,355,93 69,66 184,37 0,126 0,750 0,081 0,300 S 3,53 6,10 1,118,75 1,24,32 1,24,32 1,24,32 1,24,32 </td <td>۷) ا</td> <td>TCLL wide green/green (with deep base)</td> <td>3,741.24</td> <td>3,480,00</td> <td>261.24</td> <td></td> <td>0.990</td> <td></td> <td>1.140</td> <td></td> <td></td> <td></td> <td></td>	۷) ا	TCLL wide green/green (with deep base)	3,741.24	3,480,00	261.24		0.990		1.140				
hallow base) 261.24 0.990 0.600 1.140 0.150 allow base) 261.24 0.990 0.600 1.140 0.150 allow base) 261.24 0.990 0.600 1.140 0.150 llow base) 261.24 0.990 0.600 1.140 0.150 low base) 261.24 0.990 0.600 1.140 0.150 R housing box 3.357.93 386.26 0.915 0.980 0.600 0.140 0.150 R housing box 3.357.93 386.26 0.915 0.980 0.600 0.143 1.406 0.450 0.049 R housing box 3.357.93 6.50 1.230 0.050 0.143 1.428 1.030 0.050 R 5.89 1.118.75 1.18.75 0.126 0.126 0.126 0.126	9	HSTCLL narrow green (with shallow base)	3,043.24	2,782.00	261.24	,	0.990	0.600	1.140	0.150			
hallow base) 261.24 261.24 0.990 0.600 1.140 0.150 allow base) 261.24 261.24 0.990 0.600 1.140 0.150 llow base) 261.24 0.990 0.600 1.140 0.150 low base) 261.24 0.990 0.600 1.140 0.150 low base) 1,355.93 969.67 386.26 0.915 0.880 1.406 0.150 R housing box 3,387.22 2,960.40 426.82 0.915 0.880 1.406 0.150 R housing box 1,355.93 969.67 386.26 0.915 0.880 1.406 0.450 R housing box 1,355.93 969.67 386.26 0.915 0.880 1.406 0.450 R housing box 1,355.93 188.46 0.600 0.143 1.428 1.436 R 5.50 1,118.75 180.16 1.437 0.160 0.143 1.438 R 5.33.70 214.32 1.710 0.163 <td>۲-</td> <td>HSTCLL wide green (with shallow base)</td> <td>3,043.24</td> <td>2,782.00</td> <td>261.24</td> <td></td> <td>0.990</td> <td>0.600</td> <td>1.140</td> <td></td> <td></td> <td></td> <td></td>	۲-	HSTCLL wide green (with shallow base)	3,043.24	2,782.00	261.24		0.990	0.600	1.140				
allow base) 261.24 261.24 0.990 0.600 1.140 0.150 llow base) 261.24 261.24 0.990 0.600 1.140 0.150 low base) 261.24 0.990 0.600 1.140 0.150 low base) 1,355.93 969.67 386.26 0.915 0.880 1.140 0.150 R housing box 3,387.22 2,960.40 426.82 0.915 0.879 0.600 0.140 0.150 L school 1,355.93 969.67 386.26 0.915 0.880 1.539 0.300 L school 2,519.96 2,331.50 188.46 0.600 0.143 1.428 1.030 E.So 1,118.75 150.16 0.750 0.081 0.331 1.030 83.53 69.16 14.37 0.126 1.710 0.331 1.94.94 1.710 194.94 1.710 2.23.70 2.23.70 2.230 2.330 272.46 272.46 2.390	ده	HSTCLL narrow yellow (stb-R/W) (with shallow base)	261.24		261.24		0.990	0.600	1.140				
llow base) 261.24 261.24 0.990 0.600 1.140 0.150 low base) 261.24 261.24 0.990 0.600 1.140 0.150 low base) 1,355.93 969.67 386.26 0.915 0.880 1.539 0.300 A housing box 3,387.22 2,960.40 426.82 0.915 0.879 1.406 0.450 0.051 Lists, park 2,519.96 2,331.50 188.46 0.600 0.143 1.428 1.030 0.031 Lists, park 1,118.75 150.16 0.750 0.081 0.331 1.030 0.031 83.53 69.16 14.37 0.126 0.108 0.331 1.180 1.180 83.53 61.96 12.32 0.108 1.710 1.880 1.710 233.70 233.70 2.220 2.230 2.230 2.230	Ò	HSTCLL narrow green (stb-R/W) (with shallow base)	261.24		261.24		0.990	0.600	1.140				
tow base) 261.24 0.990 0.600 1.140 0.150 1,355.93 969.67 386.26 0.915 0.880 1.539 0.300 2,387.22 2,960.40 426.82 0.915 0.880 1.539 0.300 0.049 1,355.93 969.67 386.26 0.915 0.880 1.539 0.300 0.049 1,355.93 969.67 386.26 0.915 0.880 1.406 0.450 0.051 1,268.91 1,118.75 150.16 0.057 0.081 0.331 0.051 6.50 6.50 0.126 0.075 0.081 0.331 0.051 83.53 69.16 14.37 0.108 0.108 0.331 74.28 61.96 12.32 0.108 0.331 214.32 214.32 1.710 0.205 233.70 2.320 2.220 272.46 2.390 2.390	2		261.24		261.24		0.990	0.600	1.140				
3.355.93 969.67 386.26 0.915 0.880 1.539 0.300 0.051 3.387.22 2,960.40 426.82 0.948 0.879 1.406 0.450 0.049 1.355.93 969.67 386.26 0.915 0.880 1.539 i.0300 0.049 2,519.96 2,331.50 188.46 0.600 0.143 1.428 i.0300 0.051 6.50 0.15 0.081 0.133 i.18.75 150.16 0.057 0.081 0.331 83.53 69.16 14.37 0.108 i.1710 0.108 i.1800 194.94 194.94 1.710 2.050 2.220 2.220 2.220 253.08 253.08 2.230 2.350 2.350 2.350 2.350		HSTCLL wide green (stb-R/W) (with shallow base)	261.24		261.24		0.990	0.600	1.140				
3,387.22 2,960.40 426.82 0.948 0.879 1,406 0,450 0,049 1,355.93 969.67 386.26 0.915 0.880 1,539 ; 0.300 0,051 2,519.96 2,331.50 188.46 0.600 0.143 1,428 ; 0.300 0,051 1,268.91 1,118.75 150.16 0.057 0.081 0,331 ; 0.300 0,051 83.53 69.16 14.37 0.126 0.108 1.710 0.168 194.94 1,232 0.108 1.710 1.880 2.33.70 2.33.70 2.220 253.08 253.08 2.220 2.390 2.390 2.390 2.390	2	Foundation for TCLL (typical)	1,355.93	69.69	386.26		0.915	0.880	1.539			0.550	Annex-5
1,355.93 969.67 386.26 0.915 0.880 1.539 9.0300 0.051 2,519.96 2,331.50 188.46 0.600 0.143 1.428 9.0301 1,268.91 1,118.75 150.16 0.750 0.081 0.331 9.0301 83.53 69.16 14.37 0.126 9.057 9.030 9.031 194.94 12.32 0.108 1.710 1.880 1.710 214.32 214.32 1.880 2.050 253.08 253.08 2.220 2.220 272.46 2.72.46 2.3390 2.3390	~~. [j	Foundation for TCLL (apron area) with TR housing box		2,960.40	426.82		0.948	0.879	1.406			0.449	Annex-16
2,519,96 2,331,50 188,46 0.600 0.143 1,428 1,268,91 1,118,75 150,16 0.750 0.081 0.331 6,50 6,50 0.057 0.057 83,53 69,16 14,37 0.126 74,28 61,96 12,32 0.108 194,94 1,710 1,880 214,32 214,32 1,880 233,70 2,33,70 2,220 253,08 2,22,08 2,230 272,46 2,22,46 2,390	<u> </u>	Foundation for HSTCLL (typical)	1,355.93	29696	386.26		0.915	0.880	1.539	٠٠.		0.550	Annex-5
1,268.91 1,118.75 150.16 0.750 0.081 0.331 6.50 6.50 0.057 0.057 83.53 69.16 14.37 0.126 74.28 61.96 12.32 0.108 194.94 1.710 1.710 214.32 214.32 1.880 233.70 2.33.70 2.050 253.08 2.220 2.220 272.46 2.72.46 2.330	~	Transformer housing box	2,519.96	2,331.50	188.46		0.600	0.143	1.428	• •		0.504	Annex-6
6.50 6.50 0.057 83.53 69.16 14.37 0.126 74.28 61.96 12.32 0.108 194.94 194.94 1.710 214.32 214.32 1.880 233.70 233.70 2.050 253.08 2.220 272.46 272.46 2.390	22	Hand hole 400x400x500	1,268.91	1,118.75	150.16		0.750	0.081	0.331			0.580	Annex-13
83.53 69.16 14.37 0.126 74.28 61.96 12.32 0.108 194.94 1.710 214.32 214.32 1.880 233.70 2.33.70 2.050 253.08 2.220 272.46 2.390		5kv AFL primary cable	6.50		6.50		0.057						
74.28 61.96 12.32 0.108 194.94 194.94 1.710 214.32 214.32 1.880 233.70 2.33.70 2.050 253.08 2.53.08 2.220 272.46 2.72.46 2.390	23		83.53	91.69	14.37		0.126			(maran-da			Annex-7
194.94 1.710 214.32 214.32 233.70 2.33.70 253.08 2.220 272.46 2.390	<u> </u>	FEP SO	74.28	96 19	12.32		0.108						Annex-8
233.70 2133.70 253.08 253.08 272.46 272.46	20	600v AFL secondary cable 30m with plug	194.94		194.94		1.710						
233.70 253.08 272.46 272.46	7	600v AFL secondary cable 40m with plug	214.32		214.32		1.880						
253.08 272.46 272.46	22	600v AFL secondary cable 50m with plug	233.70		233.70		2.050						
272.46	3	600v AFL secondary cable 60m with plug	253.08		253.08		2.220						
	24	600v AFL secondary cable 70m with plug	272.46		272.46		2.390						

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)

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Item No. : 9	Description . Taxiway Center I inc I inhts
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Complex Construction Cost - Unit Rate Estimate

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System) Item No.: 10
Description: Taxiway Edge Lights

		λ ο lamo)] OC3	Total M/D	Type	Electri-	Special	Common	Surveyor	Surveyor Steel setter	For	
			Component		Cmit	Cian	Ciarconnen	# COP	10630 105	2000		Remark
					cost	114	63	52	342	73	73	
(Chinese RMB)	(Chinese RMB)	لــــا	Arnount	Amount	M/D							
TWYL elevated-type blue 2,102,30	2,102.30		1,844.00	258.30		0.750		1.350	0.300			
Foundation for TWYL with normal bend 205.06	205.0	9	181.37	23.69			0.047	0.115			0.202	0.202 Annex-17
Transformer housing box 2,519.96	2,519.9	Ý	2,331.50	188.46		0.600	0.143	1.428			0.504	0.504 Annex-6
Skv AFL primary cable 26.00	26.0	0	19.50	6.50		0.057						
FEP 80 83.53	83.5	3	69.16	14.37		0.126	- 					Annex-7
FEP 50 74.28	74.2	8	96.19	12.32		0.108						Annex-8
600v AFL secondary cable 10m with plug	126.1	60		156.18		1.370			aniene.			
SGP 50 85.13	85.13	-	63.92	21.21		0.186						Annex-10
Flexible pipe 50 (stainless) 1,092.31	1,092.31		1,067.00	25.31		0.222					non-state.	
10 Auxiliary materials for piping	·									o.wa.da		
Cable splice kit (5kv AFL Primary Cable) 333.40	333.40		265.00	68.40		0.600						
12 Plug and receptable 136.80	136.80			136.80		1.200						
13 Earthing terminal 6,505.54	6,505,54		3,929.26	2,576.28		17.700		10,740				Annex-11
14 Consumable and miscellancous materials	-	_									_ =====	
15 Spare parts					*****					-		
91			-thi			-						
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23						= 417						

THE PARTY CONTRACTION COST - CHILLANDE ESSENDENCE

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System) Item No.: 11

Description : Stop Bar System

	Remark											7-x-04 055 0	0 202 Annex-17	0.550 Annex-5	0.504 Annex-6		0 504 Assess			/-waiiicx-/					Vanex-10	**************************************	
Form	5	73										0.550	0 202	0 550	0 504		0 504										•
Steel setter	12000	73						~~~ <i>d</i>				0.051		0.051			0.049							,			
Survevor		342		0.150	0.300	0.150	0.300	0.150	0.150	0.150	0.150	0.300		0.300		0.600		-							-		
Common		22		1.140	1.350	1.140	1.350	1.140	1.140	1.140	1.140	1.539	0.115	1.539	1.428	3.900	1.438										
Special craftsmen		63		0.600	COL - MALLEY	0.600		0.600	0.600	0.600	0.600	0.880	0.047	0.880	0.143		0.144	-		-				:			
Electri- cian		114		0.990	0.750	0.990	0.750	0.990	0.990	0.990	0.990	0.915	•	0.915	0.600	2.100	0.600	0.057	0.126	1.370	1.540	1.710	1.880	0.186	0.222		0.600
Туре	Unit	cost	M/D						- roeken	·											-						
Total M/D			Amount	261.24	258.30	261.24	258.30	261.24	261.24	261.24	261.24	386.26	23.69	386.26	188.46	647,40	192.62	6.50	14.37	156.18	175.56	194.94	214.32	21.21	25.31		68.40
Local	Component		Amount	2,792.00	1,395.00		1,395.00					79.696	181.37	29.696	2,331.50		551.30		69.16					63.92	1,067.00		265.00
Complex	Unit Cost		(Chinese RMB)	3,053,24	1,653.30	261.24	1,653.30	261.24	261.24	261.24	261.24	1,355.93	205.06	1,355.93	2,519.96	647.40	743.92	6.50	83.53	156.18	175.56	194.94	214.32	85.13	1,092.31		333.40
	No. Description			1 STBL surface-type red	2 STBL elevated-type red	3 STBL surface-type red controllable	4 STBL elevated-type red controllable	5 TCLL narrow green/yellow controllable	6 TCLL narrow green/green controllable		S TCLL wide green/green controllable		10 Foundation for STBL elevated-type with normal bend	11 Foundation for TCLL controllable	12 Transformer housing box	13 Microwave sensor	14 Foundation for microwave sensor	15 Sky AFL primary cable	16 FEP 80	17 600v AFL secondary cable 10m with plug	18 600v AFL secondary cable 20m with plug	19 600v AFL secondary cable 30m with plug	20 600v AFL secondary cable 40m with plug	21 SGP 50	2 Flexible pipe 50 (stainless)	23 Auxiliary materials for piping	24 (Cable splice kit (5kv AFL Primary Cable)
	Ź.					m	4	<u>~</u>	<u> </u>		٠٠٠	<u>۸</u>	<u> </u>			=	7	 	2		∞.	5	2	7	22	33	77





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PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)
Item No.: 11
Description: Stop Bar System

	Remark				Annex-11																						
Form		73			****	Z-BANK.																		:			
Surveyor Steel setter		73						-																			
Surveyor		342																									
Common		22			10.740																						
Special craftsmen		63					end háta																				
Electri- cian		114		1.200	17.700			-					-														
Type	Chit	cost	NS S								<u> </u>		er-Press								,						
Total M/D			Amount	136.80	2.576.28								·														
Local	Component		Amount	-	3,929.26															ي	~ ~ ~						
Complex	Unit Cost		(Chinese RMB)	136.80	6,505.54																						
	. Description			Plug and receptacle			Spare parts											-:									
	ģ			25	26	27	28	53	3	3	32	33	¥	35	8	33	88	33	\$	4	42		44	45	46	47	\$

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)
Item No.: 12
Description: Runway Guard Lights

	Remark				97	יאוויכא-נס	e e e e e e e e e e e e e e e e e e e		a na	in the second		COPE PS		Table Table				one a	**************************************	, Dec	ederale	Org. See .	de la V	TOTAL CONTRACTOR		:		3 - 132 - 1	
Form		73			0 606	200					-								ad mar de	r brackde									
Surveyor Steel setter		73					er er un																		-	:	-		
Surveyor		342		0 300					- A Contact										****										
Common		22		1.350	1 246																		W. C. W. M.		-	- 1			
Special craftsmen		63			0.234								e e de Car					•								:			
Electri- cian		114		0.750	0.750	1.200																		:					
Type	Chiit	cost	M/D									-3														-			
Total M/D			Amount	258.30	209.20	136.80					 -																		
Local	Component		Amount		4,532.52										•					~					·	-	-		
Complex			(Chinese RMB)	258.30	4,741.72	136.80												~ · · · ·							-				
	Description			Runway Guard Lights	Foundation for runway guard lights	Plug and receptacle		Spare parts			2-					. :			-										
	Š.				7	m	4	'n	<u></u>	^	00	0	0	=	Ü)	7	5	9		-	∞	<u>0</u>	20	77	22	23	72



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PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System) Item No.: 13

Description: Taxiway Intersection Lights

	Remark					0.550 Annex-5	0.449 Annex-16	0.504 Annex-6	-	Annex-9	Annex-10																
EQ.		73				0.550	0.449	0.504		•						<u>-</u>											:
Crast Catter	2005	73			·	0.051	0.049		3 0								age grandfad					a =====		-			
	1000	342		0.150	0.150	0.300	0.450					 -															
Common	1000	52	-	1.140	1.140	1.539	1.406	1.428	•							*****											
Special		63		0.600	0.600	0.880	0.879	0.143										-					:				
Electri-		114		0.990	0.600	0.915	0.948	0.600	1.710	0.231	0.186	0.348	0.222		1.200										:		-
Туре	č	cost	Q/W														-										
Total M/D			Amount	261.24	261.24	386.26	426.82	188.46	194.94	26.34	21.21	39.68	25.31		136.80					-							
Tocal	Component		Amount	2,782.00	3,480.00	2969.67	2,960.40	2,331,50		81.02	63.92	2,236.00	1,067.00	-	•												
Xəlumo	Unit Cost		(Chinese RMB)	3,043.24	3,741.24	1,355.93	3,387.22	2,519.96	194.94	107.36	85.13	2,275.68	1,092.31		136.80	- 22	******						-				
	No. Description			TISL yellow (with shallow base)	TISL yellow (with deep base)	Foundation for TISL (typical)	Foundation for TISL (apron area) with TR housing box	Transformer housing box	600v AFL secondary cable 30m with plug	7 SGP 80	3 SGP 50	9 Flexible pipe 80 (stainless)	10 Flexible pipe 50 (stainless)	11 Auxiliary materials for piping	12 Plug and receptacle	13 Consumable and miscellaneous materials	14 Spare parts		91		18	61	20	21	22	23	24

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)

Item No.: 14 Description: Taxiing Guidance Signs

10.50	WE CO	Remark		Or East				SA PERS					0.807 Annex-19	.088 Annex-20	.088 Annex-20	.369 Annex-21	369 Annex-21	.650 Annex-22	1.650 Annex-22	1.931 Annex-23	0 580 Annex-13	,	7	Ann. 4				Annex-11
	Form		73										0.807	1.088	1.038	1.369	1.369	1.650	1.650	1.931	0 580	3	- Tomana					
	Steel setter		73																			**************************************						
	Surveyor		342																							:		
Common	labour		52		0.900	006.0	1.200	1.200	1.200	1.200	1.200	1.200	1.361	1.522	1.522	1.682	1.682	1.843	1.843	2.003	0.331		~~·					10.740
Special	craftsmen		63				-						0.316	0.453	0.453	0.590	0.590	0.727	0.727	0.864	0.081			:	,	:		
Electri-	cian		114		0.750	0.750	0.900	0.900	0.900	0.900	0.900	0.900	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.750	0.057	0.126	0.108		0.600	1.200	17.700
Type		Unit	cost	Ω/Ω							••••				· · · · · ·											:		
	Total M/D			Amount	132.30	132.30	165.00	165.00	165.00	165.00	165.00	165.00	250.49	288.00	288.00	325.47	325.47	362.98	362.98	400.45	150.16	6.50	14.37	12.32		68.40	136.80	2,576.28
	Local	Component		Aunount	13,870.00	20,250.00	21,260.00	28,190,00	29,200.00	30,240.00	42,770.00	43,730.00	1,037.70	1,473.82	1,473.82	1,911.37	1,911.37	2,346.48	2,346.48	2,782.58	1,118.75	19.50	69.16	96.19		265.00		3.929.26
	Complex	Unit Cost		(Chinese RMB)	14,002.30	20,382.30	21,425.00	28,355.00	29,365.00	30,405.00	42,935.00	43,895.00	1,288.19	1,761.82	1,761.82	2,236.84	2,236.84	2,709.46	2,709.46	.3,183.03	1,268.91	26.00	83.53	74.28		333.40	136.80	6,505.54
		Description			TXGS 2-letter	TXGS 3-tetter	TXGS 4-Jetter	TXGS 5-letter	TXGS 6-letter	TXGS 7-letter	TXGS 8-letter	TXGS 9-letter	Foundation for TXGS 2-tetter	Foundation for TXGS 3-letter	Foundation for TXGS 4-letter	Foundation for TXGS 5-letter	Foundation for TXGS 6-letter	Foundation for TXGS 7-letter	Foundation for TXGS 8-letter	Foundation for TXGS 9-letter	Hand hole 400x400x500	5kv AFL primary cable		FEP 50	Auxiliary materials for piping	Cable splice kit (5kv AFL Primary Cable)	Plug and receptacle	Earthing terminal
	:	Š.				7	'n	4	Ś	\$	~	∞	0	2		7	Ξ	4	ک	91	2	∞	3	2	5	\mathbf{z}	23	X.





Complex Construction Cost - Unit Rate Estimate

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)

Item No.: 14 Description: Taxiing Guidance Signs

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r Form	!			·					jod _{e d} o Tudos			0.4 P. C. R.		_		n an arbeite									
Surveyor Steel setter													curvat.			**************************************				···	rtenera en	esta esta esta esta esta esta esta esta			
Surveyor 342																									
Common labour 52																									
Special craftsmen									*****								allera an								
Electri-										- <u>-</u>	-	er er		_											
Type Unit	Q/W				-									_		,		-							_
Total M/D	Amount					<u> </u>								_											
Local	Amount				-																	_			
Complex Unit Cost	(Chinese RMB)				-,		· · · · · ·							===								-			
Description		Consumable and miscellaneous materials	Spare parts	Delivery and installation cost																					
Š.		72 C	26 St	27 D	78	59	30	<u></u>	32	33	34	35	>	-	88	39	4	4	42	43	44	45	46	47	_

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)

Item No.: 15

Description: Wind Direction Indicator Lights

Compared	t					Type	Electri-	Special	Common			,		
Circlinese RMB Amount Amo		Decoriotion	Complex	Local	Total M/D	:	cıan	crattsmen	labour	Surveyor	Steel setter	Form	c	
WDIL	s		100	Component		cost	114	63	25	342	73	57	Nemark	
WDIL Foundation for WDIL Circular band 1,089,00 3,233.17 1,089,00 2,41,08 7,500 0,876 4,500 0,937 1,512 0,367 9,770 0,387 1,512 0,387 1,770 0,387 1,0740 1,074			(Chinese RMB)	Amount	Arnount	M/D							aligner broadly	
Foundation for WDIL 3,233.17 2,992.09 241.08 Circular band 1,289.1 Hand bole 400x400x30 1,288.91 1,118.75 1		WDIL .	1,089.00	١.	1,089.00		7.500		4.500					
Circular band Hand hole 400x400x500 1,588.91 1,118.75 1,50.16 0,750 0,081 0,331 0,580 0,080 0,188.91 1,118.75 1,118.75 1,50.16 0,081 0,331 0,4380 0,4	~	Foundation for WDIL	3,233.17	2,992.09	241.08			0.876	0.937		0.367	1.512	Annex-24	
Hand hole 400x400x500	6.3	Circular band	35,937.67	32,029.81	3,907.86			12.291	46.515			9.791	Annex-25	
600v XLP EPPVC 25mm2.4e 74.28 53.10 19.16 0.168 FPP 50 Auxiliary materials for piping Earthing terminal Consumable and miscellaneous materials Spare parts	4	Hand hole 400x400x500	1,268.91	1,118.75	150.16		0.750	0.081	0.331			0.580	Annex-13	
Auxiliary materials for piping Earthing terminal Consumable and miscellaneous materials Spare parts	Ś	600v XLPE/PVC 25mm2-4c	72.26	53.10	19.16		0.168							
Spare parts Spare parts	છ	PEP 50	74.28	61.96	12.32		0.108						Annex-8	
Consumable and miscelluneous materials Spare parts	~	Auxiliary materials for piping							~					
Spare parts	8	Earthing tenninal	6,505.54	3,929.26	2,576.28		17.700	***	10.740				Annex-11.	-
Spare parts	0	Consumable and miscellaneous materials											megnet si ni	
	2	Spare parts												
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Item No. : 16 Description : Apron Floodlighting

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		Remark												8.278 Annex-26		6.289 Annex-27	7,318 Annex-30											
	Form		73											8.278		6.289	7.318								-			
	Surveyor Steel setter		73								~~~~			14.165		2.266	2.722		*									-7
	Surveyor		342																									
Common	labour		52		42.750	42.750	19.500		24.000		19.500		3.000	7.563	30.000	4.047	4.726											
Special	craftsmen		63			***					-			15.975		2.449	2.955								-			
Electri-	cian		114	-,-	51.000	\$1,000	10.500		15.000	utnes d	10.500	•	1.200				11.328	0.222	0.168	0.129	0.105	0.141	0.087	0.069	0.063	0.051	0.249	0.057
Type		Unit	cost	M/D																								
	Total M/D			Amount	8,037.00	8,037.00	2,211.00		2,958 00		2.211.00	-	292.80	3,038.04	1,560.00	989.25	2.456.23	25.31	19.16	14.71	11.97	16.08	9.92	7.87	7.19	5.82	28.39	6.50
	Local	Component		Amount	386,940.00	358,305.00								60,127.45	17,560.00	10,947.42	14,522.13	70.90	53,10	35.60	24.00	40.00	19.60	13.50	9.20	7.10	55.80	
	Complex	Unit Cost		(Chinese RMB)	394,977.00	366,342.00	2,211.00		2,958.00	-	2,211.00		292.80	63,165,49	19,120.00	11,936.67	16,978.36	96.21	72.26	50.31	35,97	56.08	29.52	21.37	16.39	12.92	84.19	6.50
٠		Description		-	FLO lighting pole (25m) with lighting fixtures and etc.	FLO lighting pole (20m) with lighting fixtures and etc.	FLO control and monitoring system for cargo area	Remote control panel for cargo area	FLO control and monitoring system for terminal area	Remote control panel for general control center	FLO control and monitoring system for maintenance are	Remote control panel for maintenance area	Switch box for FLO (outdoor type)	Foundation for FLO	Fence for FLO lighting pole	Man hole for FLO foundation	13 Man hole for boundary point (type-B)	14 600v XLPE/PVC 35mm2-4c	15 600v XLPE/PVC 25min2-4c	16 600v XLPE/PVC 16mm2-4c	17 600v XLPE/PVC 10mm2-4c	18 600v XLPE/PVC 25mm2-3c	19 600v XLPE/PVC 16mm2-2c	20 600v XLPE/PVC 10mm2-2c	21 600v XLPE/PVC 6mn2-2c	22 600v XLPE/PVC 4mn2-2c	23 600v PVC 2mm2-30c	24 Optical fiber cable
···········		ģ	:			N	W	4	'n	ý	^	00	٥	9		2	13	7		9	1	<u>&</u>	٥	20	21	52	23	24

Complex Construction Cost - Unit Rate Estimate

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)

Description: Apron Floodlighting Item No. : 16

No. Description Complex Locati Complex Component Locati Component Compon		-					i						
Pescription Unit Cost Component Unit Cost Component Component Control Component Cost Component Cost Component Cost Component Cost Component Cost Cos	-		Complex		Total M/D	<u>}</u>	Electin-	Special	Common	•			
FEP 80	ž	-	Unit Cost	Component		ži 5	Cigi.	ctatismen	inoger	Surveyor	Steel setter		7)
FEP 80						cost	114	83	22	342	73	77	
PEP 0.			(Chinese RMB)	Amount	Amount	Q/W							-y -
Austilary materials for pigning Grounding wire H-14 Grounding wire H-14 15.79 Grounding wire H-14 15.79 Grounding wire H-14 15.70 10.72 Grounding wire H-14 15.70 10.72 10.70 10.740 21.00 21.	25		83.53	69.16	14.37		0.126						4,000,7
Coounding wire P-14	26	Auxiliary materials for piping		•									/-willey-
Cable marker tope	27	Grounding wire H-14	11.95	7.50	4.45		0.039						
Earthing ferminal 6,505.54 3,929.26 2,576.28 17.700 10.740 Execusion Sand 32.00 32.00 265.00 265.00 265.00 20.00 21.00	28	Cable marker tape	15.57		1.37		0.012						
Sand Sand 265.00 265.00 265.00 21.00 Consumable and uniscellaneous materials Spare parts Pole erection cost with heavy equipment hire cost	2	Earthing terminal	6,505.54	3,929,26	2,576.28		17.700		10.740				
Sand Back filling Consumable and miscellaneous materials Spare parts Pole erection cost with heavy equipment hire cost	8		32.00	32.00									/ Cuncx-1
Back filling Consumable and iniscellaneous materials Spare parts Pole erection cost with heavy equipment hire cost	3	Sand	265.00	265.00	:		Ta ultama						
Consumable and miscellaneous materials Spare parts Pole erection cost with heavy equipment hire cost	33	Back filling	21.00	21.00			-	7-0-					
Spare parts Pole erection cost with heavy equipment hire cost	33	Consumable and miscellaneous materials											
Pole erection cost with heavy equipment hire cost	34	Spare parts											
	33	Pole erection cost with heavy equipment hire cost	,										
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PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System) Item No.: 17
Description: Visual Docking Guidance System

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	•				Type Section	Electri-	Special	Common				eseal
_		Complex	Local	Total M/D		cian	craftsmen	labour	Surveyor	Surveyor Steel setter	Form	
Š	Description	Unit Cost	Component		Chit							Remark
					cost	114	63	52	342	73	73	Bar} <u>k</u> -‡:
ĺ		(Chinese RMB)	Amount	Amount	QΛΜ							
	\ADGS:	2,540.00		2,540.00		20.000		5.000				
~	VDGS control system											
€,3	Supporters for VDGS	4,000.00	4,000.00									
4	600v XLPE/PVC 25mm2-2c	41.16	28.50	12.66		0.111						
Ś	600v XLPE/PVC 16mm2-2c	29.52	19.60	9.92		0.087						- S-
9	600v XLPE/PVC 10mm2-2c	21.37	13.50	7.87		0.069			_			
~	RS485 cable	13.22	7.40	5.82		0.051						
00	Interface cable	23.75	15.20	8.55		0.075						
Φ	SGP 50	41.49	26.10	15.39		0.135						Topo was as
2	Flexible pipe 50	1,092.31	1,067.00			0.222						
=	Auxiliary materials for piping	عبيه عين										
7	Consumable and miscellaneous materials			-								
ũ	Spare parts											D6-4,/4
4	14 Delivery and installation cost											~
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91												
17		ga. 					-					
18												
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PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System) Item No.: 18

Description: Aircraft Stand Identification Signs

					Type	Electri-	Special	Common				
		Complex	Local	Total M/D	-	cian	craftsmen	labour	Surveyor	Surveyor Steel setter	Form	
ģ	Description	Unit Cost	Component		Unit							Remark
					cost	114 ·	63	52	342	73	73	and the second
		(Chinese RMB)	Amount	Arnount	M/D							
-	ASIS wall support type	32,851.60	32,500.00	351.60		2.400		1.500				
7	ASIS self-standing type with switch box	35,921.92	35,500.00	421.92		2.880		1.800				
~	Supporters for ASIS wall support type	4,000.00	4,000.00		B-4-8-31 15-7-4		•					
4	Foundation for ASIS self-standing type	2,436.73	2,227.56	209.17			0.718	0.912			1.596	1.596 Annex-28
Ś	600v XLPE/PVC 50mm2-2c	89:59	45.50	20.18		0.177						
૭	600v XLPE/PVC 35mm2-2c	53.10	36.00	17.10		0.150						
7	600v XLPE/PVC 25mm2-2c	41.16	28.50	12.66		0.111						
œ	600v XLPE/PVC 16mn2-2c	29.52	19.60	9.92		0.087						
٥	600v XLPE/PVC 10mm2-2c	21.37	13.50	7.87		0.069						
0	Consumable and miscellaneous materials											
==	11 Spare parts					-						
2	Delivery and installation cost			-								
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7						******				.		
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complex Construction Cost - Unit Rate Estimate

PROJECT Name : Shanghai Pudong International Airport (Airfield Lighting System) Item No. : 19 Description : Road-Holding Position Lights

	Remark				0.605 Annex-18		Annex-7	Annex-9			Annex-11									 	_				
i i		73	-		0.605												,	•							
1	Surveyor Steel seller	73					* ***	***					and a minute of					-							
3	Surveyor	342		0.300					C.G.				•					-			•				
Common	igoogi	52		1.350	1.246						10,740									 	-				
Special	Cransmen	63			0.234				and the state of t	-ChA-tha					4. h-W.					 					
Electri-	Clan	114		0.750	0.750	0.057	0.126	0.231		1.200	17.700					 						-			
Type	Cnit	cost	M/D													 		- whe	Mr When,	 					
Total MA	O O O O O O O O O O O O O O O O O O O		Amount	258.30	209.20	6.50	14.37	26.34		136.80	2,576.28	-	-					*****							
	Component		Amount	·	4,532.52		69.16	81.02	,		3,929.26														
70	Unit Cost		(Chinese RMB)	258.30	4,741.72	6.50	83.53	107.36		136.80	6,505,54										<i>2</i> 3				
	O. Description			Road-holding position lights		3 5kv AFL primary cable	t FEP 80	s SGP 80	Auxiliary materials for piping	7 Plug and receptacle	8 Earthing terminal	9 Consumable and miscellaneous materials	10 Spare parts		2	 . 4		91		9		21	22		22
	ģ	, , ,			~		4	<u>~~</u>	<u> </u>		<i>-</i>		=	<u></u>		 <u></u> -	***	,	-			~	~	•	4 C

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PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)

Item No.: 20

Description: Power Supply, Control and Monitoring System for Airfield Lighting System

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pps.			,		200	Electri-	Special	Common				-
2		Complex	Local	Total M/D		cian	craftsmen	labour	Surveyor	Steel setter	Form	
<u>.</u>	Ceschation	Unit Cost	Component		ž							Remark
comme					cost	114	63	52	342	73	73	
┸		(Chinese RMB)	Amount	Amount	M/D							
	Constant current regulator 4 KVA	981.00		981.00		4.500		9.000				
~	Constant current regulator 7.5 KVA	00'186		981.00		4.500	- 	000.6		~~~		
n	Constant current regulator 10 KVA	981.00		981.00		4.500		000 6				
4	Constant current regulator 15 KVA	1,059.00		1,059.00		4.500		10,500				
'n	Constant current regulator 20 KVA	1,137.00		1,137.00	·	4.500		12,000				Service de la constante de la
৩	Constant current regulator 25 KVA	1,215.00		1,215.00		4.500		13.500				
۲	Constant current regulator 30 KVA	1,215.00		1,215.00		4.500		13.500				
∞	Direction change-over switch	654.00		654.00	······	3.000		6.000			<u></u>	A STATE OF THE PERSON NAMES OF
6	AFL control and monitoring system:	47,652.00		47,652.00		366,000		114 000				
2	AFL remote control panel for ATC (VFR room)		-									enes:
	STB remote control panel for ATC (VFR room)											
12	AFL remote control panel for supervisor (VFR roc				· · · · · · · · · · · · · · · · · · ·						******	:Онеарт _у т
<u>:</u>	STB remote control panel for supervisor (VFR roc											-W431
7	Local control panel (main AFL substation)				E1-4A-23							
5	Local control console (main AFL substation)											COCO DE SE
9	Graphic panel (main AFL substation)				e# p·-1,,	•		- wa				
17	Data processing unit (main AFL substation)	-			. 							Carrie
<u>∞</u>	Programmable logical controller (main AFL subst						;	:	-			<u></u>
<u>6</u>	Local control panel (secondary AFL substation)						-	-				-
20	Burnt-out detection or remote unit (1025 units)	:										
7	Communication interface, software and etc.						· .		-			
77	AFL direct speech phone	69'99	;	69.99	· ·	0.585	:	:				
23	23 600v PVC 2mm2-30c	84.19	55.80	28.39	·	0 249					-	*****
×	600v PVC 2mm2-10c	33.57	19.20	14.37	_y ,	921.0						The Property of





Complex Construction Cost - Unit Rate Estimate

TO THE

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)

Item No.: 20 Description: Power Supply, Control and Monitoring System for Airfield Lighting System

American Annount Annou						Type	Electri-	Special	Common				
6.62 0.038 60 4.79 0.042 10 7.87 0.069 16 14.37 0.126	Description	t mit Co	7.	Component		Cinit	114	63	52	342	73	73	Kennan
6.62 0.058 6.02 4.79 0.042 10 7.87 0.069 114.33 0.126	(Chinese RMB)	(Chinese R	мв)	Anount	Amount	Q/W							
7.87 0.069 14.37 0.126	Optical fiber cable	9	6.62		6.62		0.058						
14.37	ble for direct speech phone	···	8.39	3.60	4.79		0.042						
0.126	2-pair communication cable		19.97	12.10	7.87		690'0						
	FEP 80 83.53	83.	23	91.69	14.37		0.126						Annex-7
	Auxiliary materials for piping			-						_			
	Consumable and miscellaneous materials			•									
	Spare parts						·						
	Delivery and installation cost											****	
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												0.0-1	
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PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)
Item No.: 21
Description: AFL Main Duct

	Remark	73					x -	8 862 Appex_29	7.318 Appex-30	2 866 Appen-31			,	i i-xomy				-2-3- -	 -	· ·								
	,	73			<u>-</u>	S _e Markey,	p#43_	3,444	2.722	0.775)	······································			a market of the				a attachaig t	· ·				Special Specia	:			
		342								-							-	• • •							******			
Common	:	52						5.753	4.726	1.793	•		10,740						- de-care						:			
Special		63				**************************************		3.715	2,955	0.831	*******									-				-	:			
Electri-	-	114		0.075	0.210	0.180		19.380	11.328		0.039	0.012	17.700					_						·	•			
Type	ا ق	cost	M.O			-																						
			Amount	8.55	23.94	20.52		3,640.86	2,456,23	411.39	4.45	1.37	2,576.28															
	Component		Amount	21.00	64.30	43.20		18,616,70	14,522.13	4.538.72	7.50	14.20	3,929.26	32,00	265.00	21.00												
	Unit Cost		(Chinese RMB)	29.55	88.24	63.72		22,257.56	16,978.36	4,950,11	11.95	15.57	6,505.54	32.00	265.00	21.00								-				
	Description			FEP 80		SGP 80	Auxiliary materials for piping	Man hole type-A	Man hole type-B	Man hole type-D-a			Earthing terminal		Sand	Back filling	14 Consumable and miscellaneous materials								· · · · · · · · · · · · · · · · · · ·			
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Complex Construction Cost - Unit Rate Estimate

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)

Item No.: Description: Power Distribution System (Main AFL Sub-Station)

	Remark				- Ju - L					Northwest Ton St.		~						···-				Annex-11					
Forn		73																				:		:		······	
Surveyor Steel setter		73												- 4					A							<u></u>	
Surveyor		342																									
Common		52		26.520	23.400	23.400	23.400	23.400	23,400	23.400	10.500	10.500										10.740		:			
Special craftsmen		63																									
Electri- cian		114		22.440	15.000	15.000	15.000	15.000	15.000	15.000	000.9	000'9	4.650	0.588	0.411	0.111	0.087	0.069	0.063	0.051	0.720	17.700	1.050	-			-
Type	Unit	cost	M/D																						~~		
Total M/D			Amount	3,937.20	2,926.80	2,926.80	2,926.80	2,926.80	2,926.80	2,926.80	1,230.00	1,230.00	530.10	67.04	46.86	12.66	9.92	7.87	7.19	5.82	82.08	2,576.28	119.70	:			
Local	Component		Amount											347.50	213.60	28.50	19.60	13.50	9.20	7.10	177.90	3,929.26	2,960.00	-			-
Complex	Unit Cost		(Chinese RMB)	3,937.20	2,926.80	2,926.80	2,926.80	2,926.80	2,926.80	2,926.80	1,230.00	1,230.00	530,10	414.54	260.46	41.16	29.52	21.37	16.39	12.92	259.98	6.505.54	3,079.70	-			
	Description		_	Transformer 3-phase 10kv/380-220v 1000KVA	High voltage incoming panel 1, 6	High voltage VCB panel 2,7	High voltage PCT panel 3, 8	High voltage branch panel 4, 9	High voltage VCB panel 5, 10	High voltage VCB panel 11	Low voltage MCCB panel (power room)	Low voltage MCCB panel (CCR room)	Bus duct 2000A	600v XLPE/PVC 240mm2-3c	600v XLPE/PVC 150mm2-3c	600v XLPE/PVC 25mm2-2c	600v XLPE/PVC 16mm2-2c	600v XLPE/PVC 10mm2-2c	16 600v XLPE/PVC 6mm2-2c	17 600v XLPE/PVC 4mm2-2c	18 600v XLPE/PVC 400mm2-1c	Earthing terminal	20 Cable terminal treatment kit (10kv 3-core Cable)	Consumable and miscellaneous materials	Spare parts	Delivery and installation cost	Testing cost
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PROJECT Name : Shanghai Pudong International Airport (Airfield Lighting System)

	ation)
•	AFL Sub-St
	dain /
-	gine Generator (N
•	Diesel Engin
Item No. :	Description: I

Complex	Local	Total M/D	r ypc	Electn- cian	Special craftsmen	Common labour	Surveyor	Steel setter	Form
Com	Component		Unit	114	83	22	342	73	73
Amount	nnt	Annount	ΩX						
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Complex Construction Cost - Unit Rate Estimate

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)

Item No.:. Description: Uninterruptible Power Supply Syatem (Main AFL Sub-Station)

Surveyor Steel setter Form		342 73 73				-																					
Common		52														-								-			
Special		63																				-		· :			
Electri-		114			-			-		•												-		· ·			
Туре	Cnit	cost	M/D																					:			
Total M/D		-	Annount						-													•		-		-	
Local	Component	-	Amount																					-			
Complex	Unit Cost		(Chinese RMB)																								
	Description	-		UPS 150KVA x 3	Battery bank x3 and static switch module	Spare parts	Delivery and installation cost	Testing cost												-							-
	ş			_	~	n	₩	'n	9	~	∞	٥	2	=	ü	Ξ	ᅺ	15	9	5	8	5	8	7	22	23	_

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)

Item No.: Description: Power Distribution System (Secondary AFL Sub-Station)

cian craftsmen labour Surveyor Steet setter Form 114 63 52 342 73 73 22,440 26,520 23,400 23,400 23,400 23,400 15,000 23,400						Type	Electri-	Special	Common				
Unit Cost			Complex	Local	Total M/D		cian	craftsmen	labour	Surveyor	Steel setter	Ponn	
Chitacse RAID Amount Am	ź		Unit Cost	Component		Unit							Remark
Transformer, 3-phase 104v/380-220v 800KVA	9-20-					cost	114	63	52	342	73	17	
Transformer 3-phase 10kv/380-220v 800KVA 3,937.20 22440 26.520 15.000 23.400 15.000 23.400 15.000 23.400 15.000 23.400 15.000 23.400 15.000 23.400 15.000 23.400 15.000 23.400 15.000 23.400 25.926.80 2.926.80 2.926.80 2.926.80 2.926.80 2.926.80 2.926.80 2.926.80 2.926.80 2.926.80 23.400 23			(Chinese RMB)	Amount	Amount	M/D							
High voltage incoming panel 1, 6 1, 2, 226, 80 1, 2, 200 1, 2, 2, 200 1, 2, 2, 200 1, 2, 2, 2, 200 1, 2, 2, 2, 200 1, 2, 2, 2, 200 1, 2, 2, 2, 200 1, 2, 2, 2, 200 1, 2, 2, 2, 2, 2, 20 1, 2, 2, 2, 2, 2, 2, 2, 2, 20 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2		Transformer 3-phase 10kv/380-220v 800KVA	3,937.20		3,937.20		22.440		26.520		- French		
High voltage VCB panel 2,7 2,926.80 2,926.80 15,000 23,400 High voltage PCT panel 3,8 2,926.80 2,926.80 15,000 23,400 High voltage PCT panel 3, 18 2,926.80 2,926.80 15,000 23,400 High voltage VCB panel 1, 10 2,926.80 1,230.00 2,926.80 15,000 23,400 High voltage VCB panel 1, 10 2,926.80 1,230.00 1,230.00 2,926.80 15,000 23,400 Low voltage MCCB panel (CCR room) 1,230.00 1,230.00 6,000 10,500 10,500 Low voltage MCCB panel (CCR room) 1,230.00 1,230.00 6,000 10,500 10,500 Low voltage MCCB panel (CCR room) 41,45 347.50 6,000 10,500 10,500 Low voltage MCCB panel (CR room) 1,230.00 1,230.00 1,230.00 10,500 10,500 10,500 Low voltage MCCB panel (CR room) 1,230.00 1,230.00 1,230.00 10,500 10,500 10,500 10,500 10,500 10,500 10,500 11,500 11,500	~	High voltage incoming panel 1, 6	2,926.80		2,926.80		15.000		23.400				المنافضة والمنطوبة
High voltage PCT panel 3, 8 High voltage PCT panel 4, 9 Ly26.80 High voltage PCT panel 5, 10 Ly26.80 High voltage PCT panel 5, 10 Ly26.80 High voltage PCT panel 6, 10 Ly26.80 High voltage VCB panel (power room) Ly20.00 Low voltage MCCB panel (power room) Ly20.00 Bus duct 1600A At 44.60 At 44.60 At 46.60 Bus duct 1600A At 46.60 At 46.60	ω.	High voltage VCB panel 2, 7	2,926.80		2,926.80		15.000		23.400				
High voltage branch panel 4, 9 2,926.80 2,926.80 15,000 23,400 High voltage VCB panel 5, 10 2,926.80 15,000 23,400 High voltage VCB panel 5, 10 2,926.80 15,000 23,400 Low voltage WCB panel (GR room) 1,230.00 6,000 10,500 Low voltage MCCB panel (GCR room) 1,230.00 6,000 10,500 Bus duct 1600A 444.60 444.50 6,000 10,500 Bus duct 160A 444.60 347.50 6,000 10,500 Bus duct 160A 444.60 347.50 6,000 10,500 60Dv XLPE/PVC 240mm2.3c 17.41 133.10 38.31 0,336 60Dv XLPE/PVC 25mm2.2c 29.52 19.60 9.22 0,007 60Dv XLPE/PVC 4mm2.2c 16.37 13.50 7.19 0,065 60Dv XLPE/PVC 4mm2.2c 16.505.54 3,929.26 2,576.28 0,447 Cohe terminal reatment kit (10kv 3-core Cable) 3,079.70 2,900.00 119.70 1,050 Cohe terminal reatment kit (10kv 3-core Cable)	4	High voltage PCT panel 3, 8	2,926.80		2,926.80		15.000		23.400				
High voltage VCB panel 5, 10 2,926.80 1,200.00 1,200.	<u>د</u>	High voltage branch panel 4, 9	2,926.80		2,926.80		15.000		23.400				
High voltage VCB panel 11 2,926.80 Low voltage MCB panel 11 Low voltage MCCB panel 11 Low voltage MCCB panel (power room) Low voltage MCCB panel (CR room) Low voltage MCB panel (CR room) Lo	9	High voltage VCB panel 5, 10	2,926.80		2,926.80		15.000		23.400				
Low voltage MCCB panel (power room) 1,230.00 1,2	۲	High voltage VCB panel 11	2,926.80		2,926.80		15.000		23.400				مديدون ي
Low voltage WCCB panel (CCR room) 1,230,00 Bus duet 1600A 444,60 4	00	Low voltage MCCB panel (power room)	1,230.00		1,230.00		000'9		10.500				
Bus duet 1600A 444.60 3.900 600v XLPE/PVC 240mm2-3c 414.54 347.50 67.04 0.588 600v XLPE/PVC 240mm2-3c 171.41 133.10 38.31 0.336 600v XLPE/PVC 55mm2-2c 41.16 28.50 12.66 0.111 600v XLPE/PVC 16mm2-2c 29.52 19.60 9.92 0.087 600v XLPE/PVC 16mm2-2c 16.39 9.20 7.19 0.069 600v XLPE/PVC 6mm2-2c 16.39 9.20 7.19 0.063 600v XLPE/PVC 6mm2-2c 16.39 9.20 7.19 0.063 600v XLPE/PVC 4mm2-2c 16.39 9.20 7.19 0.063 600v XLPE/PVC 300mm2-1c 194.76 143.80 50.96 0.447 600v XLPE/PVC 300mm2-1c 194.76 143.80 50.96 0.447 Consumable and miscellaneous materials 2,960.00 119.70 1.050 Consumable and miscellaneous materials 2,960.00 119.70 1.050 Delivery and installation cost 1 1.050 1.050	٥	Low voltage MCCB panel (CCR room)	1,230.00		1,230.00		000.9		10.500				34-444.
600v XLPEPVC 240mm2-3c 414.54 347.50 67.04 0.588 600v XLPEPVC 95mm2-3c 171.41 133.10 .38.31 0.336 600v XLPEPVC 25mm2-2c 41.16 28.50 12.66 0.111 600v XLPEPVC 16mm2-2c 29.52 19.60 9.92 0.087 600v XLPEPVC 10mm2-2c 16.39 9.20 7.19 0.069 600v XLPEPVC 6mm2-2c 16.39 9.20 7.19 0.063 600v XLPEPVC 6mm2-2c 12.92 7.10 5.82 0.051 600v XLPEPVC 4mm2-2c 12.92 7.10 5.82 0.047 600v XLPEPVC 20mm2-1c 194.76 143.80 50.96 0.447 600v XLPEPVC 20mm2-1c 194.76 143.80 50.96 0.447 60v XLPEPVC 20mm2-1c 194.76 143.80 50.96 0.447 Cable terminal treatment kit (10kv 3-core Cable) 2.960.00 119.70 1.050 Consumable and miscellaneous materials 2.960.00 119.70 1.050 Delivery and installation cost 1.0000 1.0000 1.0000 Testing cost 1.0000 1.000	2		444.60		444.60		3.900	,			ov		
600v XLPE/PVC 95mm2-3e 171,41 133.10 38.31 0.336 600v XLPE/PVC 25mm2-2c 41.16 28.50 12.66 0.111 600v XLPE/PVC 16mm2-2c 29.52 19.60 9.92 0.087 600v XLPE/PVC 10mm2-2c 13.37 7.87 0.069 600v XLPE/PVC 6mm2-2c 16.39 9.20 7.19 0.063 600v XLPE/PVC 6mm2-2c 16.39 9.20 7.19 0.063 600v XLPE/PVC 4mm2-2c 12.92 7.10 5.82 0.051 600v XLPE/PVC 500mm2-1c 194.76 143.80 50.96 0.047 600v XLPE/PVC 300mm2-1c 194.76 143.80 50.96 0.047 Cable terminal treatment kit (10kv 3-core Cable) 3.079.70 2.96.00 119.70 1.050 Consumable and miscellaneous materials 3.079.70 2.96.00 119.70 1.050 Delivery and installation cost 1.050 1.050 1.050		600v XLPE/PVC 240mm2-3c	414.54	347.50	67.04		0.588						
600v XLPE/PVC 25mm2-2c 41.16 28.50 12.66 0.111 600v XLPE/PVC 16mm2-2c 29.52 19.60 9.92 0.087 600v XLPE/PVC 16mm2-2c 16.39 9.20 7.19 0.069 600v XLPE/PVC 6mm2-2c 16.39 9.20 7.19 0.063 600v XLPE/PVC 4mm2-2c 12.92 7.10 5.82 0.051 600v XLPE/PVC 50mm2-1c 194.76 143.80 50.96 0.047 600v XLPE/PVC 30mm2-1c 194.76 143.80 50.96 0.047 600v XLPE/PVC 30mm2-1c 5.82 0.051 10.740 Cable terminal treatment kit (10kv 3-core Cable) 3.079.70 2.960.00 119.70 1.050 Consumable and miscellaneous materials 3.079.70 2.960.00 119.70 1.050 Spare parts Delivery and installation cost 1.050 1.050 1.050	2	600v XLPE/PVC 95mm2-3c	171.41	133.10	38.31		0.336						
600v XLPE/PVC 16mm2-2c 29.52 19.60 9.92 0.087 600v XLPE/PVC 10mm2-2c 21.37 13.50 7.87 0.069 600v XLPE/PVC 10mm2-2c 16.39 9.20 7.19 0.063 600v XLPE/PVC 5mm2-2c 12.92 7.10 5.82 0.051 600v XLPE/PVC 4mm2-2c 194.76 143.80 50.96 0.047 600v XLPE/PVC 300mm2-1c 194.76 143.80 50.96 0.047 Cable terminal treatment kit (10kv 3-core Cable) 3.079.70 2,96.00 119.70 1.050 Consumable and miscellaneous materials Spare parts 1.050 1.050 Spare parts Delivery and installation cost 1.050 1.050	Ξ.	600v XLPE/PVC 25mm2-2c	41.16	28.50	12.66		0.111						
600v XLPE/PVC 10mm2-2c 21.37 13.50 7.87 0.069 600v XLPE/PVC 6rmn2-2c 16.39 9.20 7.19 0.063 600v XLPE/PVC 4mm2-2c 12.92 7.10 5.82 0.051 600v XLPE/PVC 4mm2-1c 194.76 143.80 50.96 0.447 600v XLPE/PVC 300mm2-1c 6.505.54 3,929.26 2,576.28 17.700 Cable terminal treatment kit (10kv 3-core Cable) 3,079.70 2,960.00 119.70 1,050 Consumable and miscellaneous materials Spare parts 10,740 1,050 Spare parts Delivery and installation cost 15.50 1,050	4	600v XLPE/PVC 16mm2-2c	29.52	19.60	9.92		0.087	•					
600v XLPE/PVC 6mm2-2c 16.39 9.20 7.19 0.063 600v XLPE/PVC 4mm2-2c 12.92 7.10 \$.82 0.051 600v XLPE/PVC 300mm2-1c 194.76 143.80 50.96 0.447 600v XLPE/PVC 300mm2-1c 194.76 143.80 50.96 0.447 Earthing terminal treatment kit (10kv 3-core Cable) 3.079.70 2.960.00 119.70 10.740 Consumable and miscellaneous materials Spare parts 1.050 1.050 Delivery and installation cost Testing cost	2	600v XLPE/PVC 10mm2-2c	21.37	13,50	7.87		0.069				- 1.445, 1.45		
600v XLPE/PVC 4mm2-2c 12.92 7.10 5.82 0.051 600v XLPE/PVC 300mm2-1c 194.76 143.80 50.96 0.447 Earthing terminal 6,505.54 3,929.26 2,576.28 17.700 Cable terminal treatment kit (10kv 3-core Cable) 3,079.70 2,960.00 119.70 1.050 Consumable and miscellaneous materials Spare parts Delivery and installation cost 1.050 1.050	9	600v XLPE/PVC 6mm2-2c	16.39	9.20	7.19		0.063						
600v XLPE/PVC 300mm2-1c Earthing terminal Cable terminal treatment kit (10kv 3-core Cable) Spare parts Delivery and installation cost Testing cost		600v XLPE/PVC 4mm2-2c	12.92	7.10	5.83		0.051			- ,		: :	
Earthing terminal Cable terminal treatment kit (10kv 3-core Cable) Consumable and miscellaneous materials Spare parts Delivery and installation cost Testing cost	8	600v XLPE/PVC 300mm2-1c	194.76	143.80	20.96		0.447						
Cable terminal treatment kit (10kv 3-core Cable) 3,079,70 2,960.00 119,70 1.050 Consumable and miscellaneous materials	2	Earthing terminal	6,505.54	3,929,26	2,576.28	:	.17,700		10.740	-	:		Annex-11
Consumable and miscellaneous materials	20	Cable terminal treatment kit (10kv 3-core Cable)	3.079.70	2,960.00	119.70		1.050						
22 Spare parts 23 Delivery and installation cost 24 Testing cost	21	Consumable and miscellaneous materials						:			-		,
23 Delivery and installation cost 24 Testing cost	22	Spare parts											
24 Testing cost	23	Delivery and installation cost											
	74	Testing cost				-							45.746.74A



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PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System) Item No.:

Description: Diesel Engine Generator (Secondary AFL Sub-Station)

	Remark				-		2.34																			
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iteel setter		73												 3.444						····			: : :			
Surveyor Steel setter		342									A	le addresse						······································				E-2-7 E-				
Common		52												 									· ·			
Special craftsmen		63												 _									. :			
Electri- cian		114										PA - 67 SATT											•			
Type	: <u>#</u>	cost	QXV															-							: =	
Total M/D			Amount																						-	
Local	Component		Amount												,				-							
Complex			(Chinese RMB)															<u> </u>						-	Į.	
	Description			D.E.G. 50Hz 380/220v 880KVA	Generator panel, DC source panel and service tank	Main tank 20000 litters	Spare parts	Delivery and installation cost	Testing cost					-											-	
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Complex Construction Cost - Unit Rate Estimate

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)

Item No.: Description: Uninterruptible Power Supply System (Secondary AFL Sub-Station)

	_			_							y The
•	Complex	Local	Total M/D		cian	craftsmen	labour	Surveyor	Steel setter	Form	
Description	Unit Cost	Component		Cmit							Remark
				cost	114	63	52	342	73	27	. Base
	(Chinese RMB)	Amount	Amount	M/D							
UPS 100KVA×3											
Battery bank x3 and static switch module											<u> </u>
Spare parts											
Delivery and installation cost											LOTA P
Testing cost											agronta
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PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System)

Item No.: Description: Control and Monitoring System for Power Distribution System

	Remark									SI	<u>, 1</u>	t]			dend o									· · · ·	 -		
Form		73																•									
Surveyor Steel setter		73					-																				
Surveyor		342																									
Common		52		42.000									<u></u>											:			
Special craftsmen		63				-				- <u> </u>														-			
Electri- cian		114		19.500					0.585	0.249	0.210	0.042	0.126											-			
Турс	Unit	cost	M/D																								
Total M/D			Amount	4,407.00					69.99	28.39	23.94	4.79	14.37								-			•			
Local	Component		Amount							55.80	37.40	3.60	69.16										-				
Complex			(Chinese RMB)	4,407.00	********				69.99	84.19	61.34	8.39	83.53					1.00					202				
	Description			Control and monitoring system:	Power remote control panel (main AFL substation	Power graphic panel (main AFL substation)	Data processing unit (main AFL substation)	Power local control panel (main AFL substation)	Power direct speech phone	600v PVC 2min2-30c	600v PVC 2mm2-20c	Communication cable for direct speech phone	FEP 80	Auxiliary materials for piping	Consumable and miscellaneous materials												Total
	ģ			-	7	٣	4	'n	9	~	00	0	2	=======================================	12	<u></u>	4	15	91	7	00	<u>.</u>		7	22	23	72

Complex Construction Cost - Unit Rate Estimate

PROJECT Name: Shanghai Pudong International Airport (Airfield Lighting System) Item No.:
Description: Maintenance Center Equipment

	Complex	Local	Total M/D	Type	Electri- cian	Special craftsmen	Common	Surveyor	Steel setter	Form	
Description	Unit Cost	Component		Cair						l	Remark
				cost	114	63	52	342	73	73	
	(Chinese RMB)	Amount	Amount	M/D							
Dry type cleaning device											
Hot water type parts cleaning device											
Simplified air leakage testing device											
Supersonic wave cleaning device											
Light distribution intensity measuring device											
											
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Light measurement System					,						
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