

**PARBATI III (4 X 130 MW)****FRANCIS TURBINE****PACKAGE WEIGHTS & DIMENSIONS**

S.NO.	DESCRIPTION	NO. OF PACKAGES	PACKAGE DIMENSIONS (EACH)			WT.OF EACH PACKAGE	WEIGHT PER UNIT		SUM	
			L	W	H	TONNE	TONNE		TONNE	
			(m)	(m)	(m)					
<b>A)</b>	<b>TURBINE (each)</b>									
1.0	Runner	1.0	3.5	3.5	1.5	22.0	22.0			
2.0	Shaft	1.0	3.5	1.6	1.6	15.0	15.0			
3.0	Head Cover	1.0	4.5	4.5	1.7	23.0	23.0			
4.0	Bottom Ring	1.0	4.4	4.4	1.5	14.0	14.0			
5.0	Regulating Ring	1.0	3.0	3.0	0.5	7.0	7.0			
6.0	Guide Vanes (20 nos)	1.0	1.5	3.0	1.0	6.0	6.0			
7.0	Draft Tube Cone	1.0	1.5	3.0	1.0	11.0	11.0			
8.0	Draft Tube Liner	8.0	-	-	-	-	8.0			
9.0	Stay Ring	2.0	3.0	3.0	1.5	18.0	36.0			
10.0	Spiral Casing	8.0	-	-	-	-	25.0			
11.0	Inlet pipe	2.0	-	-	-	-	10.0			
12.0	Pit Liner	2.0	4.6	2.0	2.0	2.5	5.0			
13.0	Guide Bearing	1.0	1.20	1.20	0.70	3.0	3.0			
14.0	Other misc. assemblies & Components	.-----In suitable no. of transportable segment boxes.-----						50.0		
<b>B)</b>	<b>MAIN INLET VALVE (each)</b>									
1.0	MIV assembly (main)	1.0	3.8	3.8	3.0	60	60.0			
	Remaining parts of MIV	1.0	-	-	-	26	26.0			
1.0	Counter weight	1.0				50	50.0			
2.0	MIV servomotor	2.0	1.0	1.0	3.0	3.5	7.0			
3.0	Other Misc. assemblies & components	.-----In suitable no. of transportable segments boxes.-----						38.0		
							416.0		1664.0	
<b>C)</b>	<b>AUXILIARIES (one set for complete power house)</b>									
1.0	Cooling Water Pump Motor Set	4.0				0.5	2.0			
2.0	Cooling Water Duplex Strainers	2.0				0.5	1.0			
3.0	H.P. Compressor motor set	2.0				1.0	2.0			
4.0	L.P. Compressor motor set	2.0				1.0	2.0			
5.0	Dewatering Pump motor set	4.0				0.5	2.0			
6.0	Drainage Pump motor set	20.0				0.5	10.0			
7.0	H.P. Air Receiver	1.0				1.0	1.0			
8.0	L.P. Air Receiver	1.0				1.0	1.0			
9.0	Misc. piping, valves, fittings for C-1 to C-11	L.S						250.0		
<b>D)</b>	<b>SPARES (one set for complete power house)</b>									
1.0	Runner	1.0	3.5	3.5	1.5	22.0	22.0			
	One set for turbine, MIV & auxiliaries	.-----In suitable no. of transportable segments/boxes.-----						30.0		
							323.0		323.0	
<b>HYDROGENERATOR CONSIGNMENTS (TENTATIVE)</b>										
<b><u>PACKAGE WEIGHTS &amp; DIMENSIONS</u></b>										
S.NO.	NAME OF COMPONENT	PACKAGE WT. KG	DIMENSION, MM			CASE PER M/C	TOTAL CASES (FOR 4 M/C)	TOTAL PACKAGE WT, KG		
			L	W	H					

**PARBATI III (4 X 130 MW)****FRANCIS TURBINE****PACKAGE WEIGHTS & DIMENSIONS**

S.NO.	DESCRIPTION	NO. OF PACKAGES	PACKAGE DIMENSIONS (EACH)			WT.OF EACH PACKAGE TONNE	WEIGHT PER UNIT TONNE		SUM TONNE
			L	W	H				
			(m)	(m)	(m)				
1.0	Wound Stator Sector	68000.0	7300.0	3800.0	3200.0	3.0	12.0	816000.0	
2.0	Poles	4400.0	4400	1100	700	18	72	316800.0	
3.0	Rim Punching	2600.0	2000	1100	500	44	176	457600.0	
4.0	Top Shaft	13000.0	3000	1500	1800	1	4	52000.0	
5.0	Bottom Shaft	16500.0	3200	1500	1800	1	4	66000.0	
6.0	Thrush Collar	12000.0	2200	2200	1400	1	4	48000.0	
7.0	Spider	19500.0	3700	3700	2200	1	4	78000.0	
8.0	Top Bracket Housing	25000.0	3800	3800	1800	1	4	100000.0	
9.0	Top Bracket Arm	2500.0	2100	700	1800	6	24	60000.0	
10.0	Bottom Bracket Housing	9000.0	3800	3800	1000	1	4	36000.0	
11.0	Bottom Bracket Arms	1000.0	1000	600	800	6	24	24000.0	
12.0	Air Coolers	1500.0	2800	2400	700	6	24	36000.0	
13.0	Plug in Type Oil Coolers for upper Bearing	800.0	1200	1000	1000	6	24	19200.0	
14.0	Plug in Type Oil Coolers for Lower Bearing	500.0	1000	900	700	6.0	24.0	12000.0	
	<b>MISC PACKAGES</b>								
15.0	Large Packages	1000.0	3000	1500	1200	12	48	48000.0	
16.0	Medium Packages	7500.0	2000	1000	1000	22	88	660000.0	
17.0	Small Packages	500.0	1200	800	800	32	128	64000.0	
								2893600.0	
								2893.6	

**HSE (Electrical)****TENTATIVE PACKAGE WEIGHTS & DIMENSIONS**

S.NO.	DESCRIPTION	NO. OF PACKAGES	PACKAGE DIMENSIONS (EACH)			WT.OF EACH PACKAGE TONNE	TOTAL WT. OF PACKAGE TONNE		
			W	D	H				
			(m)	(m)	(m)				
<b>1.0</b>	<b>DC SYSTEM</b>								
	<b>220V DC SYSTEM</b>								
	Battery 1500 AH	60.0	1.0	1.0	2.5	1.5	90.0		
	Charger	2.0	3	1.0	3.0	2	4.0		
	DCDB	2.0	3.5	1.0	2.5	1	2.0		
	<b>48V DC System</b>						0.0		
	Battery 250 AH	1.0	1.5	1.0	1.5	1	1.0		
	Charger	2.0	1.2	1.0	1.2	1	2.0		
	DCDB	1.0	2	1.0	2.5	1	1.0		
<b>2.0</b>	<b>415V SWITCHGEAR</b>								
	UAB	4.0	5	2	3.0	3.5	14.0		
	MISC. Service Board	10.0	2.0	1.5	3.0	1	10.0		
	SSB	4.0	5	2	3.0	3.0	12.0		
	P/H Illumination Board	1.0	2.0	1.5	3.0	1	1.0		
	SST	4.0				10.0	40.0		
<b>3.0</b>	<b>LOCAL STARTERS</b>								
		38.0	1.5	1.0	1.5	0.3	11.4		
		20.0	1.5	1.0	3.0	0.5	10.0		
		25.0	2.0	1.0	3.0	0.75	18.8		

**PARBATI III (4 X 130 MW)****FRANCIS TURBINE****PACKAGE WEIGHTS & DIMENSIONS**

S.NO.	DESCRIPTION	NO. OF PACKAGES	PACKAGE DIMENSIONS (EACH)			WT.OF EACH PACKAGE	WEIGHT PER UNIT		SUM
			L (m)	W (m)	H (m)	TONNE	TONNE		TONNE
		10.0	3.0	1.0	2.5	0.90	9.0		
4.0	DG SETS	2.0	12.0	3.5	4.0	20	40.0		
5.0	SECURITY & SURVEILLANCE	2.0	1.5	1.0	1.5	1.0	2.0		
6.0	COMMUNICATION SYSTEM								
	PUBLIC ADDRESS SYSTEM	1.0	2.5	1.5	2.5	1.0	1.0		
	EPABX	1.0	2.0	1.5	2.5	2.0	2.0		
7.0	ELECTRICAL WORKSHOP	1.0	1.0	1.0	2.0	1.0	1.0		
8.0	FIRE FIGHTING SYSTEM	15.0	2.5	1.0	2.0	1.0	15.0		
9.0	GROUNDING SYSTEM(LOOSE MS & GS FLATS/ROD)	.....	.....	.....	.....	435.0	435.0		
10.0	LIGHTING & ILLUMUNATION SYSTEM	.....				7.5	7.5		
							729.7		729.7

**HYDRO STATION ENGINEERING DIVISION****PACKAGE WEIGHTS & DIMENSIONS**

S.NO.	DESCRIPTION	NO. OF BOXES	PACKAGE DIMENSIONS (EACH)			WT.OF EACH PACKAGE( Kg)	TOTAL WT. PACKAGE( Kg)		
			(m)	(m)	(m)	KG	KG		
<b>A</b>	<b>Mechanical Workshop Equipments (All covered store)</b>								
1.0		12.0	2.5	1.5	1	650	7800.0		
2.0		16.0	2	1.2	1	400	6400.0		
3.0		15.0	1.5	1	1	260	3900.0		
4.0		20.0	1.0	0.8	0.6	150.0	3000.0		
<b>B</b>	<b>Ventilation System (All covered store)</b>								
1.0		12.0	3.0	1.5	0.5	800.0	9600.0		
2.0		15.0	1.5	1.0	0.8	600.0	9000.0		
3.0		16.0	1.0	0.8	0.6	400.0	6400.0		
<b>C</b>	<b>Air Conditioning System (All covered store)</b>								
1.0		10.0	2.0	1.5	1.2	600.0	6000.0		
2.0		15.0	1.5	1.2	1.0	450.0	6750.0		
3.0		20.0	1.0	0.8	0.5	300.0	6000.0		
<b>D</b>	<b>Power house Elevator (All covered store)</b>								
1.0		12.0	3.0	2.5	0.5	600.0	7200.0		
2.0		9.0	1.5	1.0	0.8	300.0	2700.0		
3.0		10.0	1.0	0.8	0.6	250.0	2500.0		
<b>E</b>	<b>EOT Cranes for the Powerhouse &amp; GIS house (All covered store)</b>								
1.0		10.0	2.0	2.0	1.0	650.0	6500.0		

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S.NO.	DESCRIPTION	NO. OF PACKAGES	PACKAGE DIMENSIONS (EACH)			WT.OF EACH PACKAGE	WEIGHT PER UNIT	SUM
			L	W	H	TONNE	TONNE	
			(m)	(m)	(m)			
2.0		15.0	2.0	1.5	0.6	400.0	6000.0	
3.0		20.0	1.5	1.0	0.6	250.0	5000.0	
4.0		20.0	1.2	1.0	0.6	200.0	4000.0	
5.0		25.0	1.0	0.6	0.4	150.0	3750.0	
	EOT girders , crab etc						250000.0	
							352500.0	352.5

**SCHEDULE OF PANELS FOR STATIC EXCITATION SYSTEM****PACKAGE WEIGHTS & DIMENSIONS**

S.NO.	SCOPE OF SUPPLY	NO. OF PANELS PER SET	NO. OF SETS	DIMENSION, MM			WIGHT OF EACH SET(KGS)	TOTAL WT.(KGS)
				W	D	H	KG	KG
1.0	Regulation Panel with AVR	1.0	4.0	1500.0	1250.0	2320.0	1000.0	4000.0
2.0	Thyristor converter Panel	2	4.0	680	1250	2800	700.0	2800.0
3.0	Field flashing Panel	1	4.0	1100	1250	2320	1000.0	4000.0
4.0	Field Breaker Panel	1	4.0	1100	1250	2320	1000.0	4000.0
5.0	Excitation Transformer with enclosure	1	4.0	2000	1500	2500	7000.0	28000.0
								42800.0
								42.8

**GENERATOR RELAY PANEL & 400 KV RELAY PANEL****PACKAGE WEIGHTS & DIMENSIONS**

S.NO.	DESCRIPTION	NO. OF BOXES	PACKAGE DIMENSIONS (EACH)			WT.OF EACH BOX	TOTAL WT.	
			H	W	D			
			(m)	(m)	(m)	Kg	Kg	
1.0	Generator Relay Panel	12.0	2600(H)	2200(W)	1200(D)	1200.0	14400.0	
2.0	Switchyard Relay Panel							
a		1.0	2600.0	1200.0	1200.0	600.0	600.0	
b		1.0	2600.0	1000.0	1200.0	600.0	600.0	
c		4.0	2600.0	2200.0	1200.0	1200.0	4800.0	
							20400.0	
								20.4

**MAJOR ITEMS OF GOVERNING GROUP****PACKAGE WEIGHTS & DIMENSIONS**

S.NO.	DESCRIPTION	NO. OF PACKAGES	PACKAGE DIMENSIONS (EACH)			WT.OF EACH PACKAGE	TOTAL WT. OF PACKAGE
			(mm)	(mm)	(mm)	Kg	kg
1.0	HYDRO MECHANICAL CABINET (HMC)	4.0	3000(H)	1600(W)	1500(D)	1700.0	6800.0

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S.NO.	DESCRIPTION	NO. OF PACKAGES	PACKAGE DIMENSIONS (EACH)			WT.OF EACH PACKAGE	WEIGHT PER UNIT		SUM
			L	W	H	TONNE	TONNE		TONNE
			(m)	(m)	(m)				
2.0	MICROPROCESSOR BASED DIGITAL GOVERNOR (EHGC)	4.0	2520(H)	1200(W)	1000(D)	900.0	3600.0		
3.0	OIL SUMP TANK FOR GOV. (1.6 M. Cu)	4.0	2012(L)	1412(W)	1850(H)	1850.0	7400.0		
4.0	OIL PRESSURE RECEIVER FOR GOV. (1.6 M. Cu)	4.0	1400(phi)	3000(H)		1825.0	7300.0		
5.0	OIL SUMP TANK FOR MIV. (10 M. Cu)	4.0	5480(L)	2480(W)	3000(H)	10500.0	42000.0		
6.0	OIL PRESSURE RECEIVER FOR MIV. (12.6 M. Cu)	4.0	2500(phi)	5800(H)		15000.0	60000.0		
7.0	HYDRAULIC CONTROL PANEL FOR MIV.	4.0	2450(H)	1020(W)	820(D)	350.0	1400.0		
8.0	TROLLY MOUNTED OIL STORAGE TANK CAPACITY - 3 KL	1.0	5000(L)	2000(W)	3000(H)	5000.0	5000.0		
9.0	TROLLY MOUNTED OIL STORAGE TANK CAPACITY - 25 KL	1.0	8000(L)	3000(W)	5000(H)	30000.0	30000.0		
							163500.0		163.5

**CABLES**

<b><u>TENTATIVE LENGTH IN M</u></b>									
S NO.	DESCRIPTION				LENGTH	Unit Weight (kg/Km)	Weight(kg)		
<b>A</b>	<b>11 KV, 1 CORE, 300 MMSQ, XLPE</b>	....			16000.0	7500.0	120000.0		
<b>B</b>	<b>600/ 1100V, PVC Insulated Cables</b>								
1.0	1 Core 300 MM SQ CU				7500.0	1676.0	12570.0		
2.0	1 Core 630 MM SQ				5000.0	2000.0	10000.0		
3.0	1 Core 400 MM SQ				13000.0	1700.0	22100.0		
4.0	1 Core 240 MM SQ				4000.0	1337.0	5348.0		
5.0	1 Core 185 MM SQ				7000.0	1000.0	7000.0		
6.0	1 Core 120 MM SQ				1500.0	850.0	1275.0		
7.0	1 Core 1000 MM SQ				5000.0	2500.0	12500.0		
8.0	2/4 Core 6 MM SQ (CU)				30000.0	1000.0	30000.0		
9.0	4 Core 10 MM SQ				1000.0	1273.0	1273.0		
10.0	3.5 Core 35 MM SQ				2500.0	1300.0	3250.0		
11.0	4 Core 16 SQ MM				1000.0	1352.0	1352.0		
12.0	3.5 Core 25 SQ MM				2000.0	1128.0	2256.0		
13.0	3.5 Core X 50 SQ MM				1000.0	1583.0	1583.0		
14.0	3.5 Core X 120 SQ MM				2500.0	3000.0	7500.0		
15.0	1 Core X 500 SQ MM				1000.0	1800.0	1800.0		
16.0	2 Core X 25 SQ MM				1000.0	450.0	450.0		
17.0	1 Core X 4 SQ MM				2000.0	150.0	300.0		
18.0	2 Core X 4 SQ MM				6000.0	300.0	1800.0		
19.0	4 Core X 4 SQ MM				12000.0	900.0	10800.0		
20.0	1 Core X 50 SQ MM				2000.0	450.0	900.0		

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S.NO.	DESCRIPTION	NO. OF PACKAGES	PACKAGE DIMENSIONS (EACH)			WT.OF EACH PACKAGE TONNE	WEIGHT PER UNIT TONNE		SUM TONNE
			L	W	H				
			(m)	(m)	(m)				
<b>B</b>	<b>2.5 MM SQ Control Cable - PVC</b>								
1.0	2 Core			15000.0	350.0	5250.0			
2.0	4 Core			15000.0	625.0	9375.0			
3.0	7 Core			20000.0	800.0	16000.0			
4.0	12 Core			10000.0	1200.0	12000.0			
<b>C</b>	<b>0.5 MM SQ Twisted Pair Instrumentation Cable</b>								
1.0	2 Pair			12000.0					
2.0	4 Pair			10000.0					
3.0	8 Pair			5000.0					
4.0	16 Pair			5000.0					
			sum=	32000.0	400.0	12800.0			
<b>C</b>	<b>Telephone Cable</b>								
1.0	2 p, 5p, 10p & 20p			10000.0	400.0	4000.0			
<b>D</b>	<b>Cables for PAS</b>								
1.0	Signal Cable			10000.0					
2.0	Power Cable			10000.0					
			sum=	20000.0	350.0	7000.0			
						200482.0		200.5	

**SCHEDULE OF PANEL/ DESK FOR CONTROL & MONITORING SYSTEM**

S.NO.	DESCRIPTION	NO. OF SETS	NO. OF PANELS/ SUITES/D	Size of each panel/suite/desk				
				W	D	H		
				mm	mm	mm		
<b>1.0</b>	<b>LOCAL CONTROL BOARDS</b>							
<b>1.1</b>	<b>Unit Control Board (UCB)</b>							
1.1.1	Control & Monitoring Panel	4.0	1 suite	(750+750+750+750)	800.0	2350.0		
1.1.2	Temp. msmt. Panel on floor EL.974.0	4.0	1.0	950.0	800.0	2320.0		
1.1.3	Ins. Panel on floor EL.974.00	4.0	1.0	950.0	800.0	2320.0		
1.1.4	Gauge Panel on EL.974.00	4.0	1.0	1000.0	800.0	2320.0		
1.1.5	Remote Panel on floor EL. 968.50	4.0	1.0	750.0	800.0	2320.0		
1.1.6	Remote Panel on floor EL. 963.70	4.0	1.0	750.0	800.0	2320.0		
<b>1.2</b>	<b>Local Control Board(LCB) for Common, Station Service &amp; Dam Monitoring</b>							
1.2.1	Control & Monitoring Panel	1.0	1suite	(750+750+750+750)	800.0	2320.0		
1.2.2	Remote Panel	1.0	1.0	750.0	800.0	2320.0		
<b>1.3</b>	<b>Local Control Board(LCB) for Electrical Power Supply Service Board</b>							
1.3.1	Control, Monitoring Panel	1.0	1suite	(750+750+750)	800.0	2320.0		
<b>1.4</b>	<b>Local Control Board(LCB) for 420 KV GIS</b>							
1.4.1	Control, Monitoring Panel	1.0	1suite	(750+750+750)	800.0	2320.0		
<b>2.0</b>	<b>Computerized system in Central Control Room</b>							
2.1	Operator Stations	1set	1 desk	3600.0	800.0	1100.0		
2.2	Simulator Station	1set	1 desk	1800.0	800.0	1100.0		

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			L	W	H	TONNE	TONNE	
			(m)	(m)	(m)			
2.3	Engineer's Station(Desk top)	1set	1 desk	900.0	800.0	1100.0		
2.4	Engineer's Station(Lap top)	2set	1 table	900.0	800.0	1100.0		
2.5	maxLINC PC	1set	1set	900.0	800.0	1100.0		
2.6	maxSTORIAN PC	2sets	1set	900.0	800.0	1100.0		
2.7	Tables for Plant Computers Servers & Printers	10 nos.	1.0	900.0	800.0	1100.0		
2.8	Printers	1set	2 tables	2000.0	750.0	1000.0		
3.0	<b>Large Screen Display Unit</b>	<b>1.0</b>	<b>1.0</b>	<b>3000.0</b>	<b>2000.0</b>	<b>1000.0</b>		
4.0	<b>Network Interface Panel</b>	<b>1.0</b>	<b>1panel</b>	<b>750.0</b>	<b>750.0</b>	<b>2250.0</b>		
5.0	<b>Global Positioning System</b>	<b>1.0</b>	<b>1panel if required</b>					
6.0	<b>Dam RTU</b>	<b>1.0</b>	<b>1panel</b>	<b>1000.0</b>	<b>800.0</b>	<b>2320.0</b>		
6.1	UPS fro Dam RTU	1.0	Later	Later				
7.0	<b>Hardwire Emergence/control panel for units</b>	<b>4.0</b>	<b>1panel</b>	<b>1000.0</b>	<b>800.0</b>	<b>2320.0</b>		
8.0	<b>Hardwire Emergence/control panel for station</b>	<b>1.0</b>	<b>1panel</b>	<b>1000.0</b>	<b>800.0</b>	<b>2320.0</b>		
<b>Total</b>							App	110.0

**TRANSFORMER****PACKAGE WEIGHTS & DIMENSIONS**

S.NO.	DESCRIPTION	QTY. PER TRNASFOR MER	TOTAL QTY.	DIMENSION, MM			WIGHT PER PACKAGE	TOTAL WT.
				L	B	H	KG	KG
1.0	TRANSFORMER	1.0	12.0	3750.0	3200.0	3700.0	67000.0	804000.0
2.0	HV BUSHING	1.0	12.0	3500.0	800.0	800.0	450.0	5400.0
3.0	NEUTRAL BUSHING	1.0	12.0	2000.0	500.0	500.0	200.0	2400.0
4.0	LV BISHING	1.0	12.0	1500.0	600.0	900.0	200.0	2400.0
5.0	M. BOX	1.0	12.0	1000.0	800.0	1500.0	600.0	7200.0
6.0	COSERVATOR	1.0	12.0	3000.0	1200.0	1200.0	800.0	9600.0
7.0	PIPE WORK	2.0	24.0	4000.0	600.0	600.0	650.0	15600.0
8.0	TRANSFORMER OIL	98.0	1176.0	Std. Drum of size 210 L			200.0	235200.0
9.0	LV TURRET	1.0	12.0	1500.0	700.0	700.0	500.0	6000.0
10.0	OFWF COOLER	2.0	24.0	3500.0	800.0	800.0	1500.0	36000.0
11.0	MISC./Instruments etc.	1.0	12.0	4000.0	2000.0	2000.0	2000.0	24000.0
							1147800.0	1147.8

**MISCELLANEOUS****PACKAGE WEIGHTS & DIMENSIONS**

S.NO.	DESCRIPTION	NO. OF QTY.	PACKAGE DIMENSIONS (EACH)			UNIT WEIGHT	TOTAL WT.
			(mm)	(mm)	(mm)	T	T
1.0	<b>BUS DUCT, LAVT, NGC including steel structures</b>	4.0				75.0	300.0
2.0	11 KV switch gear, UAT 4 no.						100.0

**PARBATI III (4 X 130 MW)****FRANCIS TURBINE****PACKAGE WEIGHTS & DIMENSIONS**

S.NO.	DESCRIPTION	NO. OF PACKAGES	PACKAGE DIMENSIONS (EACH)			WT.OF EACH PACKAGE	WEIGHT PER UNIT		SUM
			L	W	H	TONNE	TONNE		TONNE
			(m)	(m)	(m)				
3.0	GAS INSULATED SWITCH GEAR	1.0					150.0		
4.0	Out door potyard equipment	1.0					250.0		
5.0	Oil handling System	1.0					50.0		
6.0	PLCC system	1.0					10.0		
8.0	Cable trays & accessories						80.0		
							940.0		940.0
								TOTAL=	8587.7
									8600.0