

<u>ANNEX-D (PAKIS/RFO/22/039)</u>					
<u>Details of Electrical Equipment Available/ Load to be supported by Solar PV System</u>					
Project Location:			Technical Training Institute Kalabat, Hairipur		
<u>Load Determination</u>					
S.No	Description	Make	Power Consumption (W)	Qty (No.)	Total Load (W)
1st Floor Offices					
Principle Offices					
1	Lights (LED)	Philips	13	4	52
2	Ceiling Fans	Pak Fans	100	1	100
3	Lights (Energy Saver)	Spiral	25	3	75
4	Washroom Exhaust	Pak Fans	24	1	24
5	PC	Intel	300	1	300
Total Load					551
Clerk Office					
1	Lights (LED)	Philips	13	6	78
2	Ceiling Fans	Pak Fans	100	1	100
Total Load					178
DIT Lab					
1	Lights (LED)	Philips	13	32	416
2	Bracket Fans	Pak Fans	65	10	650
Total Load					1,066
Control Room					
1	Lights (Energy Saver)	Spiral	25	3	75
Industrial Electrician Lab					
1	Lights (Tube)	Philips	40	48	1,920
2	PC	Intel	250	2	500
3	Ceiling Fans	Pak Fans	100	12	1,200
Total Load					3,620
Welding Lab					
1	Lights (Tube)	Philips	40	30	1,200
2	Ceiling Fans	Pak Fans	100	11	1,100
Total Load					2,300

Auto Workshop					
1	Lights (Tube)	Philips	40	36	1,440
2	Bracket Fans	Pak Fans	65	12	780
Total Load					2,220
Auto Mechanic Class Rooms (Two Rooms)					
1	Lights (Tube)	Philips	40	20	800
2	PC	Intel	250	1	250
3	Ceiling Fans	Pak Fans	100	6	600
Total Load					1,650
HVAC Class Room					
1	Lights (Tube)	Philips	40	20	800
2	Projector	Sony	300	1	300
3	Tablets	Intel	40	20	800
4	Bracket Fans	Pak Fans	65	10	650
Total Load					2,550
Machines Shop					
1	Lights (Tube)	Philips	40	42	1,680
2	Ceiling Fans	Pak Fans	100	14	1,400
Total Load					3,080
Conference Room					
1	Lights (Tube)	Philips	40	10	400
2	Ceiling Fans	Pak Fans	100	3	300
3	PC	Intel	250	1	250
4	Projector	Sony	300	1	300
Total Load					1,250
HVAC LAB					
1	Lights (Tube)	Philips	40	10	400
2	Ceiling Fans	Pak Fans	100	3	300
Total Load					700

Store					
1	Lights (Tube)	Philips	40	14	560
2	Ceiling Fans	Pak Fans	100	4	400
Total Load					960
Washrooms					
1	Lights (Tube)	Philips	40	4	160
2	Exhaust Fan	Pak Fans	24	1	24
Total Load					184
Pluming Lab					
1	Lights (Tube)	Philips	40	14	560
2	Ceiling Fan	Pak Fans	100	4	400
Total Load					960
Clerk Office-2					
1	Lights (Tube)	Philips	40	4	160
2	Ceiling Fan	Pak Fans	100	1	100
3	PC	Intel	250	1	250
Total Load					510
Computer Lab					
1	Lights (Tube)	Philips	40	12	480
2	Ceiling Fan	Pak Fans	100	6	600
3	Projector	Sony	300	1	300
Total Load					1,380
Civil Class Room					
1	Lights (Tube)	Philips	40	12	480
2	Ceiling Fan	Pak Fans	100	6	600
Total Load					1,080
Three Rooms (Architect Practical, Library and Derivery Classes)					
1	Lights (Tube)	Philips	40	30	1,200
2	Ceiling Fan	Pak Fans	100	18	1,800
Total Load					3,000
Employment Incharge Office					

1	Lights (Tube)	Philips	40	10	400
2	Ceiling Fan	Pak Fans	100	4	400
Total Load					800
Masjid					
1	Lights (Tube)	Philips	40	10	400
2	Ceiling Fan	Pak Fans	100	4	400
Total Load					800
Outer Load					
1	Lights (Energy Saver)	Spiral	25	5	125
2	Lights (Bulbs)	Philips	100	6	600
3	Street Lights	Philips	50	32	1,600
4	Beam Lights	LED	100	2	200
Total Load					2,525
Hostel Rooms (Total 9 rooms)					
1	Lights (Tube)	Philips	40	36	1,440
2	Ceiling Fan	Pak Fans	100	18	1,800
3	Gallery Lights	Philips	40	4	160
Total Load					3,400
Girls Training Institute Load					
1	Lights (LED)	Philips	18	9	162
2	Ceiling Fans	Pak Fans	100	2	200
3	Washroom Exhaust	Pak Fans	24	1	24
4	PC	Intel	300	1	300
Total Load					686
Account Office					
1	Lights (LED)	Philips	18	4	72
2	Ceiling Fans	Pak Fans	100	1	100
3	Printer	HP	500	1	500
Total Load					672

Fashion Designing					
1	Lights (LED)	Philips	13	16	208
2	Bracket Fan	Pak Fans	65	4	260
3	Ceiling Fans	Pak Fans	100	1	100
4	PC	Intel	300	1	300
Total Load					868
LTV Driving					
1	Lights (LED)	Philips	18	4	72
2	Ceiling Fans	Pak Fans	100	2	200
Total Load					272
Washrooms					
1	Exhaust Fan	Pak Fans	24	2	48
2	Lights (LED)	Philips	18	5	90
Total Load					138
Beautician Lab					
1	Ceiling Fans	Pak Fans	100	3	300
2	Lights	Philips	13	12	156
3	Bracket Fan	Pak Fans	65	4	260
Total Load					716
Hair Beauty Services					
1	Lights	Philips	13	12	156
2	Bracket Fan	Pak Fans	65	4	260
3	Ceiling Fans	Pak Fans	100	3	300
Total Load					716
Washroom					
1	Exhaust	Pak Fans	24	2	48
2	Lights (LED)	Philips	18	5	90
Total Load					138
Dress-Making					
1	Lights	Philips	25	8	200
2	Ceiling Fans	Pak Fans	100	3	300
3	Bracket Fan	Pak Fans	65	4	260
Total Load					760

Library					
1	Lights	Philips	25	4	100
2	Ceiling Fans	Pak Fans	100	3	300
Total Load					400
Display Room					
1	Lights	Philips	25	4	100
2	Ceiling Fans	Pak Fans	100	1	100
Total Load					200
Tailoring Room					
1	Lights	Philips	25	6	150
2	Ceiling Fans	Pak Fans	100	2	200
Total Load					350
Computer Lab					
1	Lights (LED)	Philips	18	9	162
2	Ceiling Fans	Pak Fans	100	2	200
3	Projector	Sony	300	1	300
4	Bracket Fan	Pak Fans	65	8	520
Total Load					1,182
Dress Making Section-B					
1	Lights	Philips	25	12	300
2	Bracket Fan	Pak fans	65	6	390
3	PC	Intel	300	1	300
Total Load					990
Staff Room					
1	Exhaust Fan	Pak Fans	24	1	24
2	Lights	Philips	25	5	125
3	Ceiling Fan	Pak Fans	100	1	100
Total Load					249
Outer Load					
1	Lights	Philips	13	30	390
2	Ceiling Fan	Pak Fans	100	3	300
Total Load					690
Total Load to be solarized					43,866