

EQUIPMENT USAGE CHARGES FOR NCPRE TOOLS

S.No	Resource Name	Internal Faculty	National Labs, University, R&D organizations and start-ups	Industry for profit organization	Slot
1	18650 Cell Semi Auto Winding Machine	300	450	1040	Hrs
2	2 inch Annealing Furnace	200	300	750	Hrs
3	2 inch Boron diffusion	200	300	750	Hrs
4	2 inch phosphorus diffusion	200	300	750	Hrs
5	4 Target E Beam Evaporator System	300	450	1200	Hrs
6	Adhesion Tester	500	750	1900	Sample
7	DektakXT Stylus Profiler	200	300	450	Hrs
8	DI Water System	200	300	400	Hrs
9	Diffusion Furnace	500	750	2300	Per run
10	Filtration machine for battery slurry	200	300	1000	Hrs
11	Final Sealing Machine	200	300	1000	Hrs
12	Fluke Thermometer	150	225	300	Hrs
13	Four Probe System	150	225	600	Sample
14	Fume Hood	100	150	500	Hrs
15	Glove box	400	600	1000	Hrs
16	Glove Box-1 with Spincoater and Hot Plates(Inert atmosphere)	300	450	650	Hrs
17	Glove Box-2 with Evaporator (Inert atmosphere)	300	450	600	Hrs
18	Glove Box-2 with Semi Probe (Inert atmosphere)	200	300	350	Hrs
19	Glove box-3 with spin coater, Hot plate & weighing balance	300	450	650	Hrs
20	Greteyes EL/PL imaging tool	300	450	2000	Hrs
21	Heat shrinkable machine	100	150	500	Hrs
22	Hot Air Oven	100	150	200	Hrs
23	In-House Solar Simulator	300	450	950	Hrs

24	Intermittant coating machine	400	600	1900	Hrs
25	LAF (spincoater)	100	150	250	Hrs
26	LAF (UVCS)	100	150	250	Hrs
27	Lifetime Characterization and Suns Voc Measurement System	400	600	1200	Hrs
28	Light Beam Induced Current	350	525	2100	Hrs
29	NCPRE Clean Bench for Mono wafers	250	375	500	per wafer
30	OE Lab Plasma Asher	200	300	450	Hrs
31	Power planetary vacuum mixer	300	450	790	Hrs
32	Quantum Efficiency Measurement System	300	450	1500	Hrs
33	Saw damage removal 5" wafer	450	675	900	per wafer
34	Screen Printer	200	300	1000	sample
35	Semi Auto Winding machine for pouch cell 2.5AH	200	300	850	Hrs
36	Semi-Auto Stacking machine	200	300	1000	Hrs
37	Single Point Pneumatic welding for cylinder cell assembling	500	750	1000	Hrs
38	Solmetric IV Tracer - 1500	100	150	250	Hrs
39	Solmetric IV Tracer -I	100	150	200	Hrs
40	Solmetric IV Tracer -II	100	150	250	Hrs
41	Spire Sun Simulator	750	1125	3600	Hrs
42	Spray Pyrolysis System	200	300	600	Hrs
43	Tab tester for pouch	100	150	600	Hrs
44	Texturization of Multicrystalline 25 wafers	250	375	500	per wafer
45	Ultrasonic spot welder	150	225	700	Hrs
46	Ultrasonic tab welder (anode tab)	550	825	1300	Hrs
47	Ultrasonic tab welder (cathode tab)	500	750	1100	Hrs
48	UV Exposure System	150	225	300	Hrs
49	UV-Vis-NIR Spectrometer - Lambda 950 (NCPRE)	400	600	2100	Hrs

50	Zeta 3D Microscope	350	525	2100	Hrs
51	SEM Image (surface OR Cross section)	525	University: Rs.1050 R&D: Rs.2625	5250	Per sample
52	SEM Image (Surface + Cross Section)	750	University: Rs.1500 R&D: Rs.3750	7500	Per sample
53	EDS	150	University: Rs.300 R&D: Rs.750	1500	Per Sample analysis
54	EDS Mapping	300	University: Rs.600 R&D: Rs.1500	3000	Per EDS Map