

### FFF Industrial Problems

Serial	Proposed Project / Problem	Name of Beneficiary	Project Area	Specialty	Address
1	Enhancement of manufacturing of Fe/ MN alloys	Helwan Company of ferrous foundries(military factory 9)	Materials	Ferrous alloys	Helwan
2	Improving the surfaces of iron alloys by using additives	Helwan Company of ferrous foundries (military factory 9)	Materials	Ferrous alloys	Helwan
3	Manufacturing of high energy emulsifier	Abu-zaabal for specialized chemicals (military factory 18)	Chemistry	High energy Problems	Abu-zaabal
4	Manufacturing of high energy emulsifier	Abu-zaabal for specialized chemicals (military factory 18)	Chemistry	High energy Polymers	Abu-zaabal
5	New resources of cellulose used for production ( on the industrial scale )of nitrocellulose instead of cotton	Abu-zaabal for specialized chemicals (military factory 18)	Chemistry	Polymers	Abu-zaabal
6	Development of industrial ether production line	Abu-zaabal for specialized chemicals (military factory 18)	Engineering	Polymers	Abu-zaabal
7	Improving the hardness of tools and dies	Shubra for engineering industries company (military factory 27 )	Materials	Material Engineering	Shubra – Cairo
8	Enhancement of theinsulation for electrical motors to withstand high temperature	Shubra for engineering industries company (military factory 27 )	Engineering	Material Engineering	Shubra – Cairo
9	Development of rolling line	Helwan for nonferrous industries company (military factory 63 )	Engineering	Material Engineering	Helwan
10	Production of car painting s( furnace painting ) which does not based on nitrocellulose	Heliopolis for chemical industries company (military factory 81 )	Chemistry	Polymers	Heliopolis
11	Manufacturing of plastic adhesives (rubber/floor,rubber/metal)	Heliopolis for chemical industries company (military factory 81 )	Chemistry	Polymers	Heliopolis
12	Production of activated charcoal	Heliopolis for chemical industries company (military factory 81)	Chemistry	Organic chemistry	Heliopolis
13	Manufacturing of anti – corrosion paints	Heliopolis for chemical industries company (military factory 81)	Chemistry	Polymers	Heliopolis

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14	Improving the plastic injection line	Heliopolis for chemical industries company (military factory 81)	Engineering	Engineering	Heliopolis
15	Improving the Manufacturing of radiators	Maadi for engineering industries company ( military factory 5 )	Chemistry	Engineering	Ma`adi-Cairo
16	Design and manufacturing of casting dies and stamps	Helwan for nonferrous industries company (military factory 63 )	Engineering	Engineering	Helwan
17	Design of automatics control systems	Banha for electronic industries company (military factory 144 )	Electronics	Electronics - control	Banha
18	Design of CNC machines and controllers	Helwan machinery and equipment company (military factory 999 )	Electronics	Engineering electronics	Helwan
19	Design of CNC machines and controllers	Helwan machinery and equipment company (military factory 999 )	Electronics engineering	Engineering electronics	Helwan
20	Improving the manufacturing of poly urethane foam	Al –Maasra for engineering industries company (military factory 45 )	Engineering Material	Engineering materials	Al – Maasra-Cairo
21	Improving the manufacturing of poly urethane foam	Al –Maasra for engineering industries company (military factory 45 )	Engineering Material	Engineering materials	Al – Maasra-Cairo
22	Enhancing the performance the thermal treatment Unit	Helwan for engineering industries company (military factory 99 )	Engineering Material	Engineering materials	Helwan
23	Enhancing the performance of hot rolling line	Abu-zaabal for engineering industries company (military factory 100)	Engineering Material	Engineering materials	Abu-zaabal
24	Enhancing the performance of cold line of special steel	Abu-zaabal for engineering industries company (military factory 100)	Engineering Material	Engineering materials	Abu-zaabal
25	Improving the automation of production lines	Abu-zaabal for specialized industries company (military factory 300)	Electronic Engineering	Engineering electronics	Abu-zaabal
26	Automatic monitoring systems (SCADA)	Abu-zaabal for specialized industries company (military factory 300)	Electronic Engineering	Engineering electronics	Abu-zaabal

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27	Design and manufacturing of dies for industrial scale	Science and technology center of excellence (STCE)	Engineering	Engineering	El-salam city - Cairo
28	Improving the performance of internal combustion engines	Helwan for diesel engines company (military factory 909)	Engineering	Engineering	Helwan – Cairo
29	Improving the performance of hydraulic pumps	Helwan for diesel engines company (military factory 909)	Engineering	Engineering	Helwan – Cairo
30	Improving the performance of hydraulic pumps	Helwan for diesel engines company (military factory 909)	Engineering	Engineering	Helwan – Cairo
31	Corrosion prevention of copper free oxygen coils used in gas heaters	Helwan for metallic appliances company (military factory 360)	Engineering	Engineering	Helwan – Cairo
32	Design of desalination , Water treatment, Waste Water treatment Units	Kaha for chemical industries company (military factory 270)	Water-desalination	Water-desalination	Kaha-Kaliobia
33	Manufacturing of electrical circuits by using Aluminum foil covered with Copper	Banha for electronic industries company (military factory 144 )	Electronics	Electronics	Kaha-Kaliobia