



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

DEPARTMENT OF MECHANICAL ENGINEERING

MANUFACTURING PROCESSES LABORATORY

Manufacturing Processes encompasses the application of castings, joining processes, die and mould design, Arc welding, gas welding, brazing, soldering, riveting. Manufacturing Processes also overlaps substantially with manufacturing engineering and industrial engineering.

List of Equipment

S. No	Item	Make	Quantity	Cost per Unit Rs.	Total Cost Rs.
1	Hydraulic press Capacity - 40 T Box size - 3 x 15'	Hi Tech Hydraulics	1	73,500	73,500
2	Electric Furnace, Power - 3.5 KW Melting capacity - 5Kg Max temp - 1000 Deg C	S V Heat Engineering	1	67,555	67,555
3	Sand testing equipment	Metsonic	1	50,300	50,300
4	Blow Moulding	Dwarka Industries	1	38,000	38,000
5	Gas welding and Brazing, Nozzle size 2mm	Kashmiri	1	24,824	24,824
6	Arc welding equipment	Hi-Tech Engineering Equipment's	1	24,000	24,000
7	Spot welding Machine, Power 6 KW	Gemco	1	23,000	23,000
8	Wood working Lathe 6"	Smith	1	13,500	13,500
9	Injection Moulding	Dwarka Industries	1	13,000	13,000
10	Solid and Blind Riveting 3 mm	Hindustan Air Tools	1	11,898	11,898
11	Foundry tools	Jyothi Engineering	2	3,000	6,000
12	Bench drilling machine	Jafuji	1	4,968	4,968
Total Cost (Rs)					3,50,545
<i>(In words: Rupees Three lakhs fifty thousand five hundred and forty five only)</i>					

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