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PUBLISHED MONTHLY
DEVOTED TO SECONDARY RAW MATERIALS

Vol. I

MADRAS—AUGUST 1958

No. 1

This issue is in commemoration
of the marriage of our Editor-in-charge

SELVAN A. RAMANATHAN, B.Sc., B.L.,
(Recipient of the Dr. Subramanya Ayyar's Gold Medal for
Constitution & International Law at the Convocation held on 18-8-58)

WITH

SELVI SIVAKAMI

on Thursday the 28th August, 1958
at Karaikudi.

(Inserted by the Members)

Official Organ :

THE WASTE & SCRAP UTILISERS COTTAGE INDUSTRIES ASSOCIATION
1-A, Edward Elliotts Road, Mylapore, Madras-4 (India)

[Price Rupee One]

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MECHANICAL DATA

Overall size	8½" x 1"	Width of column	: 2½" or 3¼"
Print area	7" x 9"	Length of column	: 9"
Columns per page	2	Screen used	: 100

Stereos, Matrices & Block Accepted.

ANNUAL SUBSCRIPTION RATES

In India—Post free	Abroad—by seamount	Single copy
Popular edition Rs. 12.00	4 Dollars	Re. 1-00.

Payment in advance in all cases.
FOR FURTHER PARTICULARS CONTACT
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WASTE & SCRAP UTILISER
1-A, Edward Elliotts Road, Madras-4.
Phone: 86870.



VOL. 1

AUGUST 1958

No. 1

OBJECT OF ASSOCIATION

This publication "Waste & Scrap Utiliser" is the first of its kind, to be published in India and we are sure the same will be well received as there is a great need in our country for information about waste reclamation industry.

The object of this Association is to educate the public to utilise the waste in the proper manner. Though it is relative by some one to push it in the proper line, it is sure to enrich the country's wealth. We all must accept, expect, of course, a few interested persons, that we are very much below standard in production, comparing any foreign advanced country. But we are capable of destruction of raw materials on point of uneconomical to repairs. Many firms cannot afford to investigate the utilisation of their own waste since this is itself an onslaught on an industry financially. Some firms do not want to repair them on tax advantages and they are also in a position to get import licence as they are in collaboration with foreigners. You are aware that foreigners are here to send our Indian wealth to their own countries!

Most of the Associations or Chambers of Commerce are generally backed up by millionaires and they are purely political organisations. They are mostly interested to get the policy of the government changed to their benefit. It is the poor man that builds up the country. The rich man gets all the benefit therefrom.

Now let us take a concrete example, of what this Association can do in course of time to save the country's wealth.

Suppose the government sells an old machinery weighing 5 tons as scrap for Rs. 1,500 on the point beyond economical repairs, though the purchase value would be Rs. 15,000 equivalent to 1,200 Pounds Sterling, to import another we require another 1,200 Pounds Sterling, which we are now short of. To repair the machinery suppose it may take Rs. 10,000 at a high figure, we must here realise that the entire amount spent for the repair goes to our own labour. After it is repaired it may be sold for the cost of the repair itself. If we don't repair the same, we have to spend £1,200 and some clever men may argue that the machine is not modern and output of this when compared to the modern is not advantageous. The answer to them is 'AMBER CHARKA'. So the time factor is not so very important to our country now.

We waste in our daily walk of life so also in industries. WE do it without thinking in same intention. Waste is an important factor to make an useful article. As such, country as whole estimated, about hundred crores are wasted every year. If all of us put our heads together, investigate and recover a portion of it, it would improve the country's wealth of secondary raw material. So also economics. You as an Indian should pledge to help our country by contributing your knowledge to recover out of waste with a view to improve our resources.

This will explain our object. Hence help us to advance our country's wealth by sending us particulars of things that you consider as waste and unserviceable to you.

BE A MEMBER TO HELP THE NATION BY YOUR SUGGESTION

An Appeal to Law Makers & Executives

Think and do something if there is any advantage or possibility.

Economy and finance of our country are improving in figures, but the public in general have to pay 10 times the price of 1939, while the earning capacity has come up 20% of 1939. So, to keep up one's morale, and make both ends meet, one has to do things other than normal. The intelligence of such normal men, is diverted to pilfer, steel, go against law and what not.

A labourer is not available on the ground that he is not adequately paid. Organisations are formed to develop a particular project. If you carefully investigate the matter, you are sure to come to the conclusion, that even without such organisations, things will go on.

Another cry of the country says that many are unemployed as they are not suitable for any job. And few men who are real workers, are boosted to such an extent, get dejected and become lazy and finally join the class of unemployed, owing to the system of paying them wages daily and not on efficiency basis.

Laws of the country is very helpful to lazy workers and idlers. 400 millions of people wait for a ship-load of milk powder from a country of 8 millions! There is colossal improvement in according circulation and big projects are carried on with no correct goal behind it.

Foreign countries who are helping us now, would have, one day or other to meet our calamity.

Unless and until the health and morale of the nation are improved, any undertaking either private, public or government, will be a thorough failure. For the health of the nation, abundant food production—grown in India—is necessary. Will the modern project help us? It may not. Producers of food are becoming very few, as they are beaten by laws. The wealth of the country depends upon the wealth of people, subject to the laws, which should be easy to adhere to, by every one. Though the legislatures have the right to make laws, by which, they can make people walk upside down—an idealism of proved "sirasasana"—they must bear in mind what the effect of such laws would be during application of the same on the public at large. Enforcement of such laws may also bring economical and financial calamity.

Then again Government is short of funds to carry out their several plans. They enact laws for imposing fresh taxes. Who is really paying these taxes? The middle class man who is the background of the nation.

The top men are the financial wizards of the country and they legally avoid taxes since they are well armed to wrestle the law. The executive of government are unable to go ahead in their normal works as they may be purchased or bullied or blackmailed or they may even lose the job in some cases. What is the net result? The rich man becomes richer, the middle man wroughts for his existence, while the labouring classes are happier than ever, since the laws are for their benefits. Is there not a salvation to India? Certainly there is. Only you must put your heads together and think in items of no personal benefit, and that you are born in this country to develop industries, to grow more food & clothing, preserve law and order, maintain health and breed honest thinking citizens.

WASTE DEALERS

At the present moment, the waste and scrap business is in the hands of mostly uneducated people. Hence our valuable secondary raw materials are going out of India as scrap by way of export which is a great loss to our country, as we are not getting proper price. The government should take a view of the nation's benefit and stop the entire export of scrap. Every scrap purchaser, consumer, dealer and exporter should be licensed rigidly and allow an organised public body to investigate such scrap to find out whether it could be utilised in the industries.

A simple example will make the reader understand how the country is losing by the export of scrap iron. Exported scrap iron which is 100% iron gets the same value for a foreigner for the 50% grade iron ore. If such things could alone be investigated properly and carefully, and sold for the proper price, if at all we are forced to export, our country's foreign exchange is sure to improve.

We are a young Nation trying to build up Industry, and do grow more food and other necessary want of daily life. In some we are unsuccessful in trying to follow advanced Countries but with far below knowledge. Probably this is the reason that we are having economic troubles, rather you may say we are unable to stop the waste the manœuvres as you are not sure what the

waste is? It may be wise to follow a successful Nation than try to be wiser with our own knowledge which may bring unsuccessful results. With the above in view this is printed as a monthly official organ of the Association which will give information for the development of the country as to how to recover the secondary raw materials from waste & scrap materials and thereby enrich our Nation. In other countries more than two hundred journals are contributing about waste recovery and usage from Industries and Institutes. This journal is the only one of its kind in India and every member who reads this shall suggest what is the best usage of scrap and the easiest method of recovery of secondary raw materials to help the public in general and understand the wealth of the Nation. In the Second World War in America scrap-yards and scrap-merchants

helped the Nation with the valuable raw materials such as cadmium, nickel and several other materials. Since our country don't possess several valuable metals, we must be careful not to waste them by exporting to other countries as scrap not knowing they are valuable.

Please write to our Editor with your suggestion which may be published if suitable and pay you Rs. 25/-.

GOVERNMENT DEPARTMENTS—TO INVESTIGATE

Government departments are requested to investigate why papers are burnt in the name of security and why they should not be recovered by powdering them with adequate machinery and save country's wealth of about 200 tons of paper costing about 8 lakhs?

Hospital authorities are requested not to burn and destroy the cotton used on patients as they could be recovered, salvaged and chemically treated, and used profitably in paper industry.

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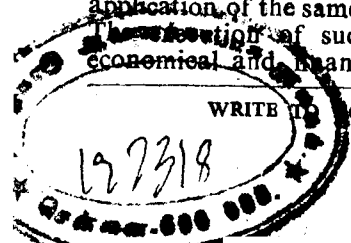
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- (78) Mr. P. S. Raj, 60-A, Mettu St, Ayyanavaram, Madras-23.

WEALTH LIES IN THE WASTE

WHITE METAL BEARING ALLOYS

TIN %	ANTIMONY %	COPPER %	LEAD %
91	7	2	—
88	8.5	3.5	—
71	12	1	16
11.5	13.15	3	72
10	10	—	80

MISCELLANEOUS WHITE METAL ALLOYS

Description	Tin %	ANTIMONY %	COPPER %	LEAD %	ZINC %
Ashbery Metal	79	16	3	—	2
Britannia Metal	BAL.	5-10	1-3	—	—
Pewter	85-90	—	—	10-15	—
Plumber's Solder	33.33	—	—	66.66	—
Stern Tube Metal	69	—	1.4	—	29.6
Tinman's Solder	66.66	—	—	33.33	—
Type Metal :					
Electrotype	2-4	2-4	—	96-92	—
Intertype	2-4	10-13	—	88-83	—
Linotype	2-4	10-13	—	88-83	—
Monotype	7-10	14-19	—	79-71	—
Stereotype	3-10	14-17	—	83-73	—

SPECIFIC GRAVITY AND COMPOSITION OF LEAD-TIN ALLOYS IN THE CAST STATE

TIN %	LEAD %	SPECIFIC GRAVITY	Melting °C.	Points °F.	BRINELL HARDNESS
—	100	11.30	327	618.8	3.9
10	90	10.72	300	577.4	10.1
20	80	10.13	275	532.4	12.2
25	75	9.89	265	509	—
30	70	9.67	255	491	14.55
35	65	9.46	245	473	—
40	60	9.25	235	446	15.8
50	50	8.88	210	401	15
55	45	8.63	200	392	—
60	40	8.48	185	368.6	14.6
65	35	8.31	183	356	16.7
70	30	8.13	195	365	15.8
80	20	7.78	200	388.4	15.2
90	10	7.49	212	419.0	13.3
100.	—	7.30	232	466	4.1

THOUSANDS OF RUPRES LYING DOWN IN THE GROUND UNCARED FOR AS THE WASTE.
PICK UP AND ENRICH THE NATION.

COMPOSITIONS OF SOFT SOLDERS, B. S. 219—(1949)

TYPICAL USES	GRADE	COMPOSITION			IMPURITIES (max.)			IRON %
		TIN %	ANTIMONY %	LEAD %	ARSENIC %	ANTIMONY %	COPPER %	
Components liable to damage by heat or requiring free-running solder; e.g., Electrical, radio and instrument assemblies, machine soldering of can end-seams.	A — K	64	—	BAL	0.005	0.6	0.3% of tin content	0.02
		65	—	BAL	0.05	0.5	—	0.02
		59	—	—	—	—	—	—
		60	—	—	—	—	—	—
Coppersmiths' and tinsmiths' bit soldering; general machine soldering (e.g., can end-seams)	B* — F — M*	49	2.5	BAL	0.05	—	—	0.02
		50	3.0	BAL	0.05	0.5	—	0.02
		49	—	—	—	—	—	—
		50	—	—	—	—	—	—
Blowpipe soldering; soldering of side seams on high-speed body-forming machines.	C* — G	44	2.3	BAL	0.05	—	—	0.02
		45	2.7	BAL	0.05	—	—	0.02
		39	2.0	BAL	0.05	—	—	0.02
		40	2.4	BAL	0.05	0.4	—	0.02
Wiping of cable and lead pipe joints; dipping-baths.	L* — D* — J	31	1.7	BAL	0.05	—	—	0.02
		32	1.8	BAL	0.05	—	—	0.02
		29	1.0	BAL	0.05	—	—	0.02
		30	1.7	BAL	0.05	—	—	0.02

SCIENTIFIC AND TECHNICAL INSTITUTIONS

Will help us to know about the waste

1. Aluminium Development Association.
2. Association of Consulting Engineers (Inc.)
3. Birmingham Association of Mechanical Engineers.
4. Birmingham Metallurgical Society (Inc.)
5. British Cast Iron Research Association.
6. Scottish Laboratories.
7. British Ceramic Research Association.
8. British Ceramic Society (Refractory Materials Section)
9. British Iron and Steel Research Association.
10. Research Laboratories :
London group :
Plant engineering division,
Physics department, chemistry department and corrosion section.
11. Iron Making Division
12. Metallurgy Division
13. Sheffield Group :
Mechanical working and steel-making divisions.
Analytical chemistry section.
14. South Wales Laboratory :
Mechanical working division, north-east coast laboratory iron-making division.
15. British Non-Ferrous Metals Research Association.
16. British Standards Institution.
17. British Welding Research Association
18. Chartered Institute of Patent Agents.
19. Chemical Society.
20. Cleveland Scientific and Technical Institution.
21. Copper Development Association.
22. Design and Research Centre for the gold, silver and jewellery Industries.
23. The Faraday Society.
24. The Gas Council.
25. Illuminating Engineering Society.
26. Institute of British Foundrymen.
London Office
Birmingham Branch
Bristol and West of England Branch
East Midlands Branch
Lancashire Branch
Lancashire Branch (Burnely section)
Lincolnshire Branch
London Branch
27. Institute of Clay Technology
28. Institute of Clayworkers
29. Institute of Fuel
30. Institute of Industrial Administration
31. Institute of Marine Engineers
32. Institute of Metal Finishing
London Centre
Midland Centre
Sheffield and N. E. Centre
33. Institute of Metals
Birmingham Local Section
London Local Section
Scottish Local Section
Sheffield Local Section
South Wales Local Section
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35. Institute of Physics
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45. Institution of Engineers-in-Charge
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Midland Branch
North-Eastern Branch
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South Wales Branch
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52. Institution of Mining & Metallurgy
53. Institution of Mining Engineers.
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Midland Counties Institution of Engineers (founded 1871)
Midland Institute of Mining Engineers (founded 1857)
Mining Institute of Scotland (founded 1879)
North of England Institute of Mining and Mechanical Engineers (founded 1852)
North Staffs Institute of Mining Engineers (founded 1872)
South Staffs and Warwickshire Institute of Engineers (founded 1867)
South-Western Society of Mining Engineers (founded 1947)
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56. Institution of Sanitary Engineers
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66. Manchester Association of Engineers
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68. Metallurgical Club
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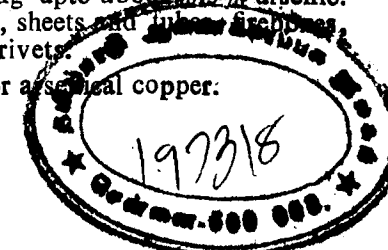
Readers to investigate and find how best they could be used profitably.

- | | |
|----------------------------------|-------------------------------------|
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| 2. Bottles, Jars. | 58. Ores. |
| 3. Bronze (phosphorous) | 59. Packings (axlebox). |
| 4. Burlap. | 60. Paper (waste). |
| 5. Candlewicks. | 61. Paperstock. |
| 6. Canvas. | 62. Plant. |
| 7. Chemicals. | 63. Plastics. |
| 8. Cloth. (job) | 64. Mixed rags (all descriptions). |
| 9. Cloth. (mutton) | 65. Rags (cotton). |
| 10. Clothing—civilian. | 66. Rags (linen) |
| 11. Clothing—government surplus. | 67. Rags—jute |
| 12. Clips. | 68. Rags—rayon. |
| 13. Cordage. | 69. Rags—worsted. |
| 14. Cotton fly. | 70. Rags—woollen. |
| 15. Cotton waste. | 71. Rails. |
| 16. Cleaning waste. (cotton) | 72. Rayon waste. |
| 17. Cleaning waste. (engine) | 73. Recarbonizer. |
| 18. Cotton wool. | 74. Residues. |
| 19. Cranes. | 75. Ropes and Strings. |
| 20. Cuttings (cotton) | 76. Rubber. |
| 21. Cuttings (linen) | 77. Rubber waste. |
| 22. Dismantlers of works. | 78. Rug wools & Yarns. |
| 23. Ebonite. | 79. Sacks and Bags. |
| 24. Fats, Waxes, Oils, Grease. | 80. Separators & Sifters. |
| 25. Felts. | 81. Shaving and Scraping machines. |
| 26. Fents & Tab ends. | 82. Shears (Alligator). |
| 27. Fibres. | 83. Sheets (Metal). |
| 28. Film waste. | 84. Ship breakers. |
| 29. Flax (spinning waste) | 85. Shoddy. |
| 30. Flocks. | 86. Silk waste, Rayon silk waste. |
| 31. Furs, Hair, Horse hair. | 87. Skin and Hides. |
| 32. Glass (broken) | 88. Skins (rabbit). |
| 33. Gluestock. | 89. Smelters and Refiners. |
| 34. Government surplus. | 90. Solders. |
| 35. Gun metal. | 91. Sponge cloths. |
| 36. Hair. | 92. Steel. |
| 37. Hemp spinning wastes. | 93. Stockinette rolls. |
| 38. Hessian. | 94. Surplus stocks. |
| 39. Hides and skins | 95. Sweepings (cotton) |
| 40. Hosiery clips (new). | 96. Textile waste. |
| 41. Incinerators. | 97. Thermoplastic (scraps). |
| 42. Ingots. | 98. Tubes (rubber). |
| 43. Iron and steel (scrap). | 99. Tubes (steel). |
| 44. Jute cuttings. | 100. Twines (hemp). |
| 45. Jute spinning wastes. | 101. Wipers, Wood Tar, Wood Carbon. |
| 46. Jute strings. | 102. Tyre castings. |
| 47. Lead smelters. | 103. Tyres. |
| 48. Linen (waste). | 104. Waddings. |
| 49. Machinery (used) | 105. Waste processors. |
| 50. Machinery. | 106. Waxes. |
| 51. Magnets (all sorts). | 107. Welding & Cutting equipment. |
| 52. Metals (non-ferrous). | 108. White metals. |
| 53. Metals (precious). | 109. Wool waste. |
| 54. Mops. | 110. Woollen cleaning waste. |
| 55. Motor spare parts. | 111. Yarns. |
| 56. Minerals. | |

DICTIONARY OF TRADE TERMS

FERROUS AND NON-FERROUS METALS

- | | |
|--------------------|---|
| BUSH BRASS | ... A term used in the North of England for an alloy containing copper, tin and lead (with or without zinc). |
| NAVAL BRASS | ... An alloy of 60-62% copper, 37-39% zinc, 1% tin. |
| RED BRASS | ... An alloy of 83% copper, 17% zinc, used for valves, bearings, castings. |
| YELLOW BRASS | ... An alloy of 70% copper, 30% zinc (also known as 70/30 brass). Widely used for cartridge cases, condenser tubes, etc. |
| BRASS SWEEPINGS | ... A scum caused through oxidation during the melting of copper and zinc. |
| "BURNT" BRASS | ... Brass annealed at excessive temperature, only suitable for remelting. |
| BRAZING BRASS | ... An alloy containing about 50% copper and 50% zinc, very low melting point. |
| 70/30 BRASS | ... An alloy of 70% copper, 30% zinc (also known as yellow brass) widely used for cartridge cases, condenser tubes, etc. |
| 60/40 BRASS | ... Muntz metal, an alloy of 60% copper, 40% zinc. |
| MANGANESE BRONZE | ... An alloy containing up to 2% manganese to a 60/40 copper-zinc alloy, employed for propellers, rudders, ships' fittings. |
| BRONZE SWEEPINGS | ... A scum caused through oxidation during the melting of copper and zinc. |
| RAILWAY BRONZE | ... Bronze from old locomotives. |
| MACHINE BRONZE | ... Consists principally of taps, valves, etc. |
| MARINE BRONZE | ... Ships' fittings. |
| COINAGE BRONZE | ... An alloy of 95% copper, 4% tin, 1% zinc. |
| LEAD BRONZE | ... An alloy of 5-10% tin, 8-10% lead, 5% phosphorous, 80-87% copper (used for locomotive slide valves and bearings.) |
| PLASTIC BRONZE | ... An alloy of 30% lead, 65% copper, 5% tin. |
| SILICON BRONZE | ... An alloy of 4-5% tin, 95%, 96% copper, trace of silicon, used for telegraph and telephone wires. |
| ALUMINIUM BRONZE | ... An alloy of 5-11% aluminium, 89-95% copper, used for seamless tubing, wire, etc. |
| BEST SELECT COPPER | ... Refined copper containing small amounts of various impurities. |
| ARSENICAL COPPER | ... Copper containing upto about 0.5% arsenic. Used for plates, sheets and other stay bolts and rivets. |
| TOUGH COPPER | ... Another name for arsenical copper. |



COPPER SCALE	... The oxidised layer formed during the rolling of copper plates.
COPPER SLAG	... A residue containing 6-12% copper and arises through spluttering of boiling metal into the heating coke.
TOUGH CAKE	... Copper with a high percentage of tin.
GUNMETAL	... 90% copper, 10% tin.
PIG IRON	... Iron made in a blast furnace or other furnace specially designed for its production.
CAST IRON	... Iron produced in a cupola or other furnace from scrap and pig iron with the carbon content exceeding 2.5%.
WROUGHT IRON	... Pig iron specially processed to reduce impurities. Scrap wrought iron is a very important raw material.
GALVANIZED IRON	... Zinc, coated iron or steel.
BATTERY LEAD	... Accumulator plates.
LEAD GRUFF	... A residue containing about 23-28% lead, 30% iron, 30% lead salts, a by-product of cyanide manufacture.
HARD LEAD	... Antimonial lead, containing 6-28% antimony, used for roofing, chemical tank linings.
TERN PLATES	... Lead-coated tin plate.
TEA LEAD	... Lining of tea chests.
BEARING METALS	... Bronze, phosphor-bronze, phosphor-tin, white-metal, phosphor-copper, anti-friction metals.
MONEL METAL	... An alloy of 70% nickel, 30% copper, used for turbine blades, marine condenser tubes, valves, etc.
NON-FERROUS METAL	... Metals which do not contain iron or in which iron is not the chief constituent, i.e., copper, brass, bronze, tin, zinc, lead, white metal, aluminium, etc.
FERROUS METALS	... Metals containing iron as the chief constituent, all alloys of steel and iron.
BASH METALS	... All metals which lose their metallic lustre and readily tarnish at ordinary temperature.
WOODS METAL	... 4 parts bismuth, 1 part tin, 2 parts lead, 1 part cadmium, very low melting point, used for electrical fuse wire.
TURNING	... Waste shavings of metal from articles machined by a cutting tool or press.
SHEARINGS	... Cuttings of metal from a guillotine or press.
TYPE METAL	... Typical composition 6% tin, 16% antimony, 70% lead.
GRINDINGS	... Particles of metal from articles and tools machined on a grinder.
BORINGS	... Flakes of metal thrown out by drills when boring (the essence of borings is that they are never spiral strips, but only chippings).

TERN ASHES
PUNCHINGS
BILLET
VIRGIN METAL
WHITE METAL
BRIQUETTES
SKULL CRACKER
BUSHELLER
CUPRO NICKEL
GERMAN SILVER
NICKEL SILVER
ASHES
BURNT CAST SCRAP
BLACK PLATES
DURALUMIN
DRAFTAGE
DROSS
GEARS
H. S. STEEL
PEWTER
PLUMBERS' SOLDER
RESISTANCE WIRE
RADIATORS

... White metal residues from tin plate works.
... Waste metal pieces from a punching, slotting or similar machine.
... A thick bar of metal, suitable for forging or rolling.
... New metal, a metal that has never been worked.
... White bearing metals, type metal, solders, fuse metals, bullet metals.
... A compressed rectangular shape of scrap metal, or (in the foundry) of slime, fine ore screenings, concentrates and coke.
... A scrap metal-breaking ball. This weight is raised to a height above the scrap and then released; used to reduce large pieces to furnace size.
... Scrap metal baler.
... An alloy of 15-20% nickel, 80-85% copper, used for bullet envelopes, tubes, etc., marine and condenser tubes.
... Nickel silver, nickel brass, used for automobile radiator shells, car, railway carriages and marine fittings, valves and resistance wire. 20-30% nickel to a 70/30 brass.
... See German silver.
... Residues.
... Metal annealed at excessive temperature, also metal burnt in course of usage, such as fire bars, etc., only suitable for remelting.
... Thin sheets of steel which have been hot or cold rolled.
... Typical composition, copper 3.7%, manganese 0.61%, magnesium 0.43%, zinc 0.25%, silicon 0.58%, iron 0.53%, aluminium 93.9%, used for aeronautical and automobile forgings, stampings, tubes, rivets, etc.
... An allowance in weight for dirt, etc. In the selling and buying of scrap lead it is customary to allow 4lb. per cwt. draft.
... To scum or extraneous matter of metals thrown off in the process of melting.
... A wheel with teeth round its circumference, spur wheels, bevel wheels, mitre wheels.
... High speed steel. A steel used mainly for cutting tools and normally containing a high tungsten content.
... An alloy of 82-32% tin, 17-18% lead.
... An alloy containing 2 parts lead, 1 part tin.
... An alloy of 40-50% nickel, 55-60% copper.
... Motor car and aero-engine radiators, usually made of brass or iron brass.

RESIDUES	... Ashes, slags, slime, skimmings, sweepings, drosses.
SCRUFF	... Tin dross.
SKULL SCRAP	... The slag or metal which sets in the bottom of the ladles after tapping.
STEEL	... Carbon-iron alloy containing up to 1.7% carbon.
SWARF	... Fine metallic particles removed by a cutting tool. See turnings and borings.
SKIMMINGS	... See dross.
SPELTER	.. Commercial name for zinc.
SLAG	.. A by-product of smelting caused by impurities fluxes and fuels.
TIN CANS	... Sheet steel with a coating of tin.
TINMANS' SOLDER	.. An alloy containing 2 parts tin, 1 part lead.
"Y" ALLOY	... An alloy of 45% copper, 1.5% magnesium, 2% nickel, 92.5% aluminium.
FIRE BOXES	.. Locomotive fire boxes usually "tough" or arsenical copper.
MILL SCALE	... The scale which arises from the hot rolling or working of steel billets or bars.
ANNEALING PAN SCALING	... The scaling which arise from the use of boxes in annealing castings and other articles.
STAMPINGS	... The waste which arises from drop stamping or forging.
FLASHINGS	... Stampings in a very light form.
RUNNERS and RISERS	... The scrap which arises in an iron or steel foundry as molten metals is poured into moulds.

READY for SALE

2 Ice Plants complete with 90 H.P. A.C. Motor 15 years old but in very good working condition.

Apply with full particulars:

BOX No. 1084

WASTE & SCRAP UTILISER
MADRAS-4.

WANTED

Non-ferrous Scrap and Residues.
High Prices Paid for uniform parcel components, Armatures, etc. Striping.
Immediate Cash Settlement.

Apply for:—

B. No. 1001.

C/o. Waste & Scrap Utilisers
C. I. Association
MADRAS-4.

WANTED

All Nickel Content Materials,
Pure nickel, Anodes, Cutting,
etc., Stainless Steel, Scrap, Offcuts,
Bars, Special Prices Tungsten and
Cobalt-Bearing Materials.

B. No. 1002.

C/o. W. & S.U.C.I. Association.
MADRAS-4.

WANTED

CASH BUYERS
Of

Rags, Metals, Iron, Paper,
Felt Cuttings, Flock, Hair,
Bagging, Plastic Scrap, etc.

B. No. 1004.

C/o. W. & S.U.C.I. Association,
MADRAS-4.

BEARINGS WANTED

All Types of Ball and Roller
Bearings and Steel Balls,

B. No. 1006.

C/o. Waste & Scrap Utiliser,
MADRAS-4.

PURCHASED REGULARLY

Upholstery and Motor Hide Off-cut
large or small quantities.

Top prices. Samples to:—

B. No. 1009.

Waste & Scrap Utiliser,
MADRAS-4.

WANTED

30,000 Grade I Large Khaki web packs.
30,000 Grade I Khaki Haversacks. 50,000
Grade I Khaki web Belts. 10,000 Grade I
Khaki Anklets. Also large quantities of
all types of webbing equipment. Grade I
Khaki Trouser, Blouses, Greatcoats and
Shirts.

Write to:—

B. No. 1020.

C/o. Waste & Scrap Utiliser,
MADRAS-4.

WANTED

Coloured and White
ALUMINIUM FOIL WASTE.
With or without paper.
Also Aluminium Scrap of all grades.

Offer with Sample to:—

B. No. 1003.

W. & S.U.C.I. Association
MADRAS-4.

WANTED

Goods Collected
BRASS SCRAP 20
IN 5, 10 or tons lots.

Write to:—

B. No. 1012.

C/o. Waste & Scrap Utiliser,
MADRAS-4.

PLASTIC SCRAP WANTED

Because:—

We are buyers for our own manufacture.
We pay top prices promptly, and collect
from your works. Let us quote you.

B. No. 1007.

C/o. Waste & Scrap Utiliser,
MADRAS-4.

WANTED

WASTE FATS
of all Description

B. No. 1008.

C/o. Waste & Scrap Utiliser,
MADRAS-4.

WANTED

Feather Beds, Elderdown, soiled
Mutton Cloth, Rayon Rope.
For spot cash

B. No. 1100.

C/o. Waste & Scrap Utiliser,
MADRAS-4.

WANTED

PAPERS

Wet Strength, Wood free, white, with
or without print (map paper). Monthly
quantity 20 tons.

Only serious prices acceptable.
One year's contract.

B. No. 1011.

C/o. Waste & Scrap Utiliser,
MADRAS-4.

ALWAYS WANTED Recovered Mercury B. No. 1015. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED FILTERCLOTH Write to :— B. No. 1016. C/o. Waste & Scrap Utiliser, MADRAS-4.
WANTED MULTI-PLAY KRAFT SCRAP and CEMENT BAGS. Free of Contraries. B. No. 1017. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED Used Wet Strength KRAFT PAPER TOWELLING. Offers to :— B. No. 1018. C/o. Waste & Scrap Utiliser, MADRAS-4.
WANTED About 40 tons SCRAP MOTOR TYRES. 20 tons gaints, and passenger (20 tons). Particulars :— B. No. 1015. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED EX. A. M. Stocks. Radio and Electrical Equipment, Iustruments, particularly Rotax, Smiths and Plessey equipment. Detail to :— B. No. 1019. C/c. Waste & Scrap Utiliser, MADRAS-4.
WANTED ZINC BASE ALLOY SCRAP? IRONY COPPER? ALUMINIUM SCRAP. Write to :— B. No. 1021. Co/. Waste & Scrap Utiliser, MADRAS-4.	WANTED CRAFFORD JUNIOR PRESS and 1/2 BOXES Write to :— B. No. 1014. Waste & Scrap Utiliser, MADRAS-4.
WANTED S/Hand Steel Shelving. useful condition. B. No. 1103. Waste & Scrap Utiliser, MADRAS-4.	WANTED MIXED RAGS. MIXED STOCKINGS. for spot cash. B. No. 1029 C/o. Waste & Scrap Utiliser MADRAS-4.
WANTED PURE NICKEL ANODES, PURE NICKEL SCRAP, "NIMONIC". "INCONEL", "MONEL", Etc., Write to :— B. No. 1022. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED MIXED STOCKING, SCREEN, SERGES, GENUINE MIXED UNRIPPED. Write to :— B. No. 1023. C/o. Waste & Scrap Utiliser, MADRAS-4.
WANTED Job Toned of c/sk Brass Woodscrews, c/sk Galvd. Woodscrews, Rensable Bronze propellers. All Marine equipment. B. No. 1028. C/o. Waste & Scrap Utiliser MADRAS-4.	WANTED All sorts of FEATHER, FEATHER BEDS, EIDERDOWN. Keenest prices. Write to :— B. No. 1025 Waste & Scrap Utiliser MADRAS-4.

WANTED VACUUM PUMPS 14" to 30" Piston Types. Apply to :— B. No. 1050. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED Well Boring Machine 6" x 8" Fitter Large Quantity Write to :— B. No. 1056. C/o. Waste & Scrap Utiliser, MADRAS-4.
WANTED Roots Blower. or Further Particulars :— B. No. 1051. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED Trailors, Road Scrapers Tractors Apply to :— B. No. 1055. C/o. Waste & Scrap Utiliser, MADRAS-4.
WANTED CARBON-DIOXIDE Compressor 5 to 50 tons. Apply to :— B. No. 1052. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED RADIO VALVES, ELECTRICAL BULBS, X-RAY VALVES, TRANSMITTER VALVES For Further Particulars, Apply to :— B. No. 1058. C/o. Waste & Scrap Utiliser, MADRAS-4.
WANTED Stainless Steel High Grade 1000 tanks URGENTLY. Write to :— B. No. 1053. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED Military Surplus Paints Offer with price, quality and sample We gladly pay for sample. For Particulars :— B. No. 1054. C/o. Waste & Scrap Utiliser, MADRAS-4.
WANTED WIRE ROPES in description and quantity Write to :— B. No. 1059. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED Boilers, Repairable as Scrap Small or Big Write to :— B. No. 1060. C/o. Waste & Scrap Utiliser, MADRAS-4.
FOR SALE Aircraft Landing Mats, 10 ft. length 15" breadth. Each 50 lbs. weight. Condition good. 200 Numbers available. Write to :— B. No. 1065. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED STAINLESS STEEL and NICKEL ALLOYS in all forms, including useful scrap off-cuts, Bar Ends, Melding Rods, etc., etc. Best prices in the trade. Immediate Payment. Write to :— B. No. 1026. C/o. Waste & Scrap Utiliser, MADRAS-4.

For SALE ASTRO COMPASS could be used as Theodolight Precision made— Original Cost. £ 50 Sold at Rs. 50 Each In Original Packing.	For SALE Reduction Gear 45-to-1 20 H.P. TARE 10 Cwt. Write to: B. No. 1036. C/o. Waste & Scrap Utiliser, MADRAS-4.
For SALE RAIN COATS, BR. MAKE NEW M.S. New Rs. 20/- Each For further particulars: B. No. 1037. C/o. Waste & Scrap Utiliser, MADRAS-4.	For SALE TENTS Rs. 1/-Per Pound From 30 to 250 pounds. Write to:— B. No. 1039. C/o. Waste & Scrap Utiliser, MADRAS-4.
For SALE SHOWELS. Rs. 3/-Each Apply to: B. No. 1041. C/o. Waste & Scrap Utiliser, MADRAS-4.	For SALE BEAD LOCK. Rs. 5/- Each. Particulars at: B. No. 1042. C/o. Waste & Scrap Utiliser, MADRAS-4.
For SALE OLIVE GREEN PAINTS Rs. 8/- per gallon. In 5 gallons tins. Apply to: B. No. 1040. C/o. Waste & Scrap Utiliser, MADRAS-4.	For SALE STAINLESS STEEL PRESSURE COOKER. Rs. 33/- Each Write to: B. No. 1043. C/o. Waste & Scrap Utiliser, MADRAS-4.
For SALE Use Your Own Telephones worked by Battery Rs. 40/- a set of Two. Write to: B. No. 1038. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED Used CINEMA FILMS Highest Price Paid Weather Exposed or Cleaned. Apply to: B. No. 1044. C/o. Waste & Scrap Utiliser, MADRAS-4.
WANTED TANKS from 100 to 1 lakh of Gallons Circular, Rectangular, pressed or any size. Particulars at: B. No. 1047. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED Electric Motors A.C. or D.C. Alternators, Generators, Diesel Engine Highest price paid. Prompt payment. Write to: B. No. 1048. C/o. Waste & Scrap Utiliser, MADRAS-4.
WANTED Large Quantity of Glass Manufacturing Moulds. Apply to: B. No. 1049. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED DRAWERS For further particulars apply to: B. No. 1045. C/o. Waste & Scrap Utiliser, MADRAS-4.

For SALE CONCRETE Mixture Various Types: (needs repair) Apply to: B. No. 1036. C/o. Waste & Scrap Utiliser, MADRAS-4.	For SALE RED LEAD RED OXIDE Apply to: B. No. 1071. C/o. Waste & Scrap Utiliser, MADRAS-4.
For SALE GENERATING SETS For particulars write to: B. No. 1067. C/o. Waste & Scrap Utiliser, MADRAS-4.	For SALE PAINTS Red, Yellow & Olive green Rs. 8 per gallon. Write to:— B. No. 1070. C/o. Waste & Scrap Utiliser, MADRAS-4.
For SALE TRAILORS Write to: B. No. 1068. C/o. Waste & Scrap Utiliser, MADRAS-4.	For SALE LORRIES Apply to: B. No. 1069. C/o. Waste & Scrap Utiliser, MADRAS-4.
WANTED WAY BRIDGES in condition or broken Write to: B. No. 1074. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED AIRCRAFT BULBS For further particulars at: B. No. 1077. C/o. Waste & Scrap Utiliser, MADRAS-4.
WANTED Waste Silk, any quantity, colour White Apply with sample Write to: B. No. 1075. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED WOOL CLIPPINGS, WOOLLEN SCRAP, of any form or any quantity Apply to: B. No. 1076. C/o. Waste & Scrap Utiliser, MADRAS-4.
WANTED 100 Windows & Doors, Secondhand or. New Apply to: B. No. 1078. C/o. Waste & Scrap Utiliser, MADRAS-4.	For SALE HYDRANTIC PUMPS 9 Pistons. 1500 per Square Inch Write for further particulars: B. No. 1079. C/o. Waste & Scrap Utiliser, MADRAS-4.
WANTED Machinery Lathe Presses, Shaping Machine Grinning Tresses, Shapers, Milling Machine, New or Secondhand or Broken Inspection at your place at our cost without obligation. Write to:— B. No. 1046. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED Light Toned Shavings, White and coloured Shavings, White Heavy Letters, Coloured Heavy Letters. Tabulating Cards Prices and Tonnage to:— B. No. 1027. Waste & Scrap Utiliser MADRAS-4.

LETTERS TO THE EDITOR

You must be aware of Ramnad District, as a whole, is a very poor producer of food products. Nobody is bothered whether any food product can be produced there at all. Every one says there is dearth of water, though the land is fertile and virgin. Moreover the labour in that district is very lazy, due to lack of proper nutrition.

When SAHARA can produce beautiful oranges and export them, why not Ramnad, which enjoys more facilities of rain and fertility of soil?

What is lacking? Efforts with proper backing by Government.

P. ARUNACHALAM
Kalpatti.

[I have recently started an agricultural farm, near Mahalir Illam, Devakottah Road, within the jurisdiction of the Agricultural Department, Karaikudi. I have taken on hire the government well-boring set and the work is half-way in boring a well.—Ed.]

PAGES 6 & 7

Alloys can be made from pewter metal, which are available largely in India as scrap by way of carburators and other dye-casting alloys. It is for you, as reader, to investigate and make the best use of the scrap.

WHAT IS PROFIT?

Profit means conversion of unpaid manhours' labour into currency of party in power, with an explanation as benefit that, one takes for the risk on any project ventured.

OR

Profit is equal to better judgement enjoying unequal benefit of an unpaid manhour labour.

WRITE TO THE EDITOR

To work as a cottage industry:

(i) Rs. 500/- offered for suggesting an easy method of making rag-paper from the waste rags and tailor cuttings available in our country.

(ii) Rs. 500/- offered for information and manufacture of useful materials from the waste rubber without much complicated machinery.

FLYING BOOTS

Wool & Silk-lined—Brand New

Original cost Rs. 150/- Offering Rs. 39/- per pair

Apply to: Box No. 1289.

WASTE & SCRAP UTILISER, MADRAS-4.

NON-METALLIC MINERALS

Asbestos, f.o.b. Canada (Quebec) Mines (Canadian Fund) ton:—

Crude No. 1. Rs. 7,350 at 9,050.

Crude No. 2. Rs. 3,940 at Rs. 5,775.

Spinning fibers Rs. 1,765 at Rs. 2,965.

Shingle fibers Rs. 950 at Rs. 1,100.

Paper stock Rs. 600 at Rs. 710.

Waste Rs. 410 at Rs. 430.

Shorts Rs. 135 at Rs. 375.

Asbestos, f.o.b. Vancouver, B.C. (Canadian Funds):

Crude No. 1. Rs. 7,610.

Spinning fibers Rs. 2,470 at Rs. 3,935.

Shingle fibers Rs. 710 at Rs. 1,625.

Asbestos, Vermont, f.o.b., Hyde Park:

Spinning fibers Rs. 1,765 at Rs. 1,915.

Shingle stock Rs. 860 at Rs. 950.

Paper stock Rs. 570 at Rs. 725.

Waste, stucco or plaster Rs. 410.

Refuse or Shorts Rs. 195 at Rs. 360.

Barytes f.o.b. cars:

Georgia, Crude, per ton Rs. 90.

Missouri, 94% Ba SO₄, per short ton Rs. 80 at Rs. 90.

Crude oil well grade, min. 4.3% sp. gravity, st(a) Rs. 90.

Imported c.i.f. Gulf Ports, st. Rs. 80 at Rs. 90.

Bauxite, long ton, f.o.b. point of shipment: Domestic, crude, 50 to 52% (not dried) Rs. 25 at Rs. 27—50.

Domestic, chemical, 55 to 58% Rs. 40 at Rs. 42—50.

Domestic, abrasive 80 to 84% Rs. 90 at Rs. 92—50.

Imported metallurgical, per f.o.b. Br. Guiana, dep. on grade Rs. 35—70.

Feldspar, bulk ton:

Potash or soda feldspar, 200 mesh, ceramic grade Rs. 92—50 at Rs. 112—50.

Glass feldspar, white, 20 mesh Rs. 50—00 at Rs. 62—50.

Fluorspar, f.o.b. mines, bulk, 72½% effective, ton Rs. 185 at Rs. 205.

60% effective CaF₂ Rs. 165 at Rs. 181—50.

Acid 97% concentrate, bulk, ton Rs. 250.

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WASTE AND SCRAP TRADE ASSOCIATIONS

National Federation of Scrap Iron, Steel and Metal Merchants	National Association of Sack Merchants and Reclaimers
Waste Trade Federation	North-East Association of Iron, Steel and Metal Merchants
Association of Washed Wiper Manufacturers	Reconditioned and salvaged Clothing Merchants' Association.
British Woollen Rag Merchants' Association	Shoddy and Mungo Manufacturers' Association
British Cleaning Cloth Association	South Wales and Monmouthshire Association of Tinsplate, Iron, Steel, Metal and Scrap Merchants
British Cotton Waste Association	The Motor Vehicle Dismantlers' Association
British Paper Stock Merchants' Association	The Northern Ireland Rag Merchants' Association
Belfast and Northern Ireland Metal Merchants' Association	Waste Rubber Merchants' Association
London and Southern Scrap Iron and Non-ferrous Metal Merchants' Association	Wiping Rag Manufacturers' Association
Midland Metal and Allied Trades' Association.	Waste Paper Merchants' Association
Midland Scrap Iron Steel & Metals Association	Yorkshire Scrap Iron, Steel and Metals Association.
Metal and Waste Traders' Association	
North-Western Waste Traders' Association	
National Association of Non-ferrous Scrap Metal Merchants, Africa House.	
North-Western Scrap Metals Association	

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48, NEW BUILDING, MADHAV WADI
DADAR, BOMBAY-14.

SCRAP IRON AND STEEL SPECIFICATIONS

The following scrap iron and steel specifications are for use in the manufacture of STEEL INGOTS

HEAVY STEEL: (But excluding Box Sections Hollow Material) Scrap, not less than 3/8 in. thick, in sizes not exceeding 5 ft. x 1 ft. 6 in., being so cut as to be free from such attachments exceeding 6 in. in length as would prevent the scrap from lying flat in the charging boxes, free from wrought iron, alloy and all deleterious material.

HEAVY WROUGHT IRON AND STEEL SCRAP: Not less than 1/4 in. thick (but may include properly cut heavy motor chassis frames), in works' furnace sizes, free from alloy, cast iron and all deleterious materials.

MEDIUM WROUGHT IRON AND STEEL SCRAP, Not less than 1/8 in. thick, in sizes not exceeding 1 ft. 6 in. in any direction (including any sheared piping and cut bedsteads), free from all deleterious materials.

HYDRAULICALLY COMPRESSED NEW STEEL AND HEAVY FAGOTTED STEEL, In works' furnace sizes, free from terne-coated, tinned, galvanized, and all deleterious materials.

HYDRAULICALLY COMPRESSED OLD WROUGHT IRON AND STEEL: In works' furnace sizes, free from terne-coated, tinned, galvanized, enamelled, and all deleterious materials.

HAND-BUNDLED NEW LIGHT STEEL SHEET CUTTINGS AND BALE HOOPS; In works' furnace sizes, tied with wires, free from terne-coated, tinned, galvanized, and all deleterious materials.

OLD LIGHT WROUGHT IRON AND STEEL: Suitable for pressing; free from terne-coated, tinned, enamelled, galvanized, and all deleterious material; but may include whole bedstead heads and feet as may be the recognised practice of the consuming works.

SHORT, HEAVY OR CRUSHED, STEEL TURNINGS: Free from bushy, alloy and non-ferrous metal.

NEW, LOOSE, LIGHT STEEL CUTTINGS: Suitable for pressing, free from terne-coated, tinned, galvanized, and all deleterious materials.

HEAVY CAST IRON SCRAP: Not less than 1/2 in. thick, in works furnace sizes, free from burnt.

LIGHT CAST IRON SCRAP: In works' furnace sizes, free from burnt.

CAST IRON BORINGS, Free from corroded lumps and dirt.

MIXED CAST IRON BORINGS AND STEEL TURNINGS: Free from corroded lumps and dirt.

BUSHY TURNINGS: Free from corroded lumps and dirt.

The following scrap iron and steel specifications are for use for IRON AND STEEL FOUNDRY CASTINGS:

- SHORT HEAVY STEEL SCRAP, consisting exclusively of rails, railway tyres, and fish-plates, in cupola sizes not exceeding 2 ft. in length.
- SHORT HEAVY STEEL SCRAP, consisting of shearings, bra ends, constructional and similar scrap, not less than 1/4 in. thick, cupola sizes not exceeding 2 ft. in length.
- HEMATITE INGOT MOULD SCRAP, in cupola sizes.
- HEAVY MACHINERY (including Textile Machinery) CAST IRON SCRAP, in cupola sizes.
- ORDINARY HEAVY CAST IRON SCRAP, not less than 1/2 in. thick, in cupola sizes, CAST IRON RAILWAY CHAIRS.
- MEDIUM CAST IRON SCRAP, consisting of gas stove plate, wringers, and similar scrap, in cupola sizes.
- LIGHT CAST IRON SCRAP, in cupola sizes.
- BURNT CAST IRON SCRAP AND FIREBARS, in cupola sizes.
- SHORT, HEAVY OR CRUSHED, STEEL TURNINGS, free from bushy, alloy, and non-ferrous metals.
- MALLEABLE CAST IRON SCRAP, in cupola sizes.
- CAST IRON SCRAP, being motor engine cylinder blocks or heads, free from steel, and non-ferrous metal.

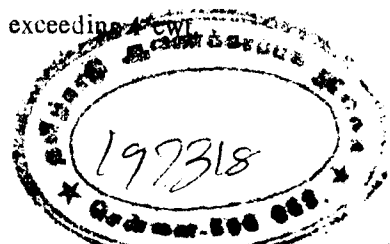
The following scrap iron and steel specifications are use in WROUGHT IRON MANUFACTURE:

(A) For delivery outside Scotland—

- SHORT, HEAVY OR CRUSHED, IRON AND STEEL TURNINGS, free from bushy, alloy, and non-ferrous metal.
- CAST IRON BORINGS, free from all contaminating material.
- HEAVY MACHINERY (including Textile Machinery) CAST IRON SCRAP, in pieces not exceeding 1 cwt.
- ORDINARY HEAVY CAST IRON SCRAP, in pieces not exceeding 1 cwt.
- LIGHT CAST IRON SCRAP.

(B) For delivery at consuming works in Scotland—

- SHORT, HEAVY OR CRUSHED, IRON AND STEEL TURNINGS, free from bushy, alloy and non-ferrous metal.
- CAST IRON BORINGS, free from all contaminating material.
- HEAVY MACHINERY (including Textile Machinery) CAST IRON SCAP, in pieces not exceeding 1 cwt.; and Cast Iron Railway Chairs.
- ORDINARY HEAVY CAST IRON SCRAP, in pieces not exceeding 1 cwt.
- LIGHT CAST IRON SCRAP.



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For SALE ASBESTOS CLOTHING 66" with 1/8" thick. 500 yards. available Write to: B. No. 1063. C/o. Waste & Scrap Utiliser, MADRAS-4.	FOR SALE ASBESTOS GLOVES, British made Military Surplus For Particulars apply to: B. No. 1064. C/o. Waste & Scrap Utiliser, MADRAS-4.
WANTED Industrial Diamonds. Any quantity Write with full particulars to: B. No. 1061. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED New Ball & Roller Bearings. All types and sizes. Apply to: B. No. 1024. C/o. Waste & Scrap Utiliser, MADRAS-4.
WANTED AEROPLANE DOPE and PAINTS Apply to: B. No. 1080. C/o. Waste & Scrap Utiliser, MADRAS-4.	WANTED ACID JARS. Any number. Write to: B. No. 1081. C/o. Waste & Scrap Utiliser, MADRAS-4.

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