693

POWER

A MONTHLY JOURNAL
MADRAS
EDITOR:- P.S.PILLAI, M.A.
Vol. II
No. 6
MARCH 1952.
Single Copy As. 8.
Annual Subs. Rs. 5.

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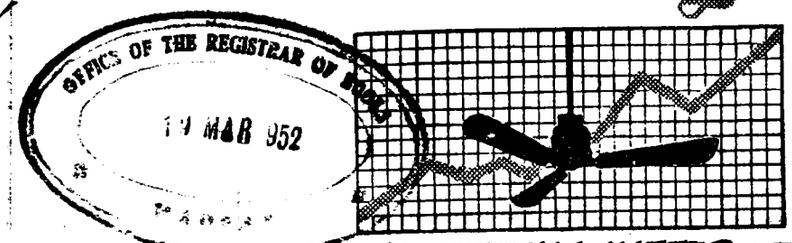
390

'NO DARK SECRET SHROUDS THIS Soaring Curve



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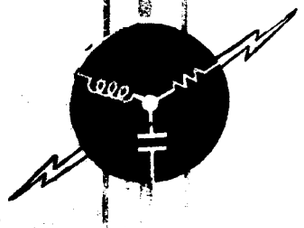

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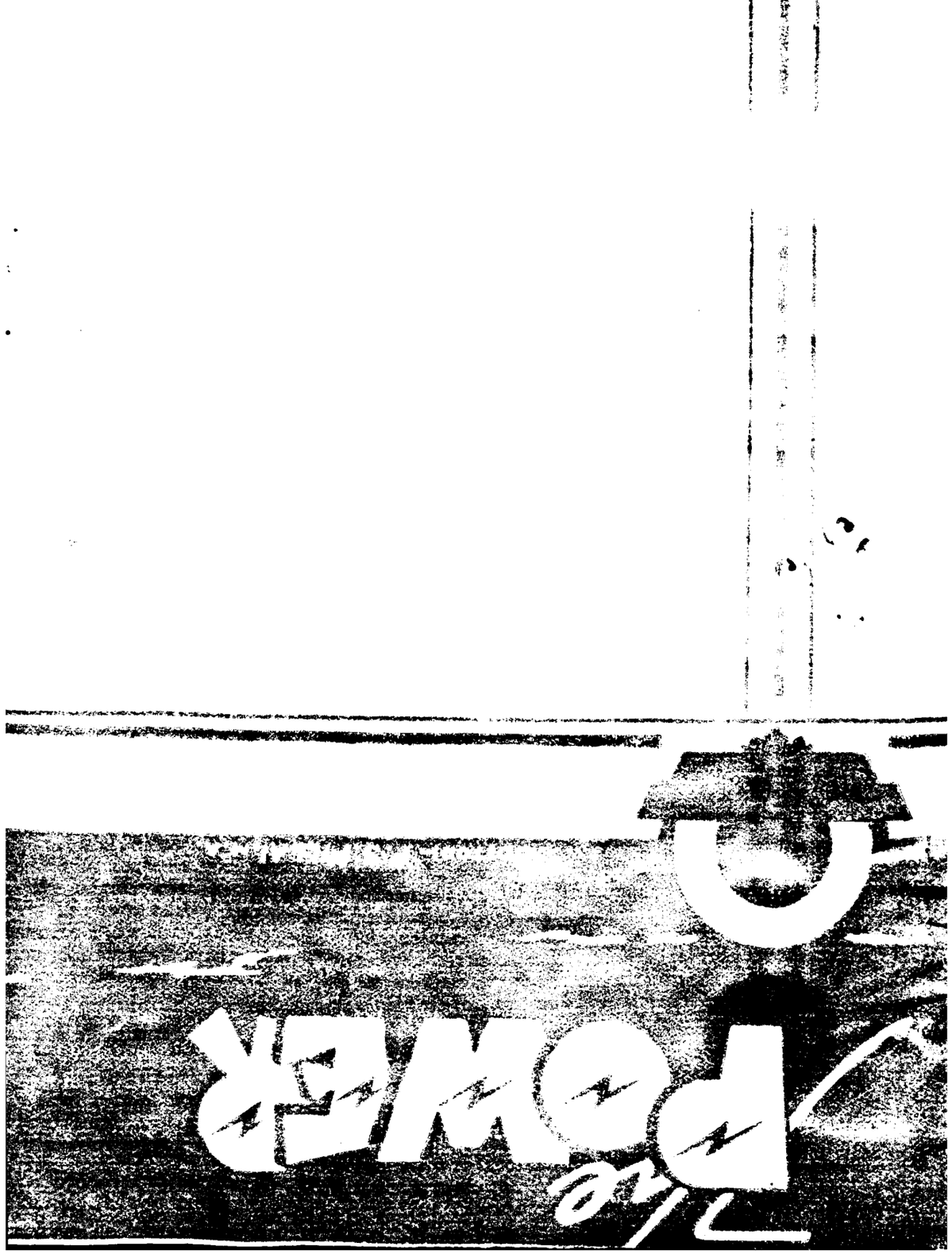

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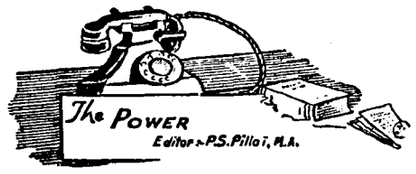

SCIENCE SERVES

The scientific outlook now pervades every phase of life in the world. Any ill-thought out action or opinion is criticised by the use of the popular phrase "That's unscientific"

The improvements of living standards among the agricultural as well as industrial population powerfully stimulates the further development of industrial technique resulting in the lift of the cultural level of the masses. In these circumstances the demand for more scientific knowledge and greater scientific efforts is inevitable. That all this is so, is borne out by the fact that science is no longer looked upon as an esoteric activity reserved for the leisure class, but as a public enterprise to be shared by all the people who are now conscious of what they need and raise their voice in positive demands in every walk of life. It can be said that now in every sphere of life, the people will take nothing which is mechanically imposed upon them. They are determined to make their own choice in matters of policy—a choice which demands correct knowledge and scientific outlook.

The science has given us the atom bomb, the technological civilization of neurosis and psychosis, the science has destroyed our religion, our morality and in short, it has removed us far from Mother nature and Father God. The rise and growth of science and technology-the two biggest events in history—have left man in confusion. All these may be apparently true! But this is an ephemeral reaction and the right frame of mind will soon hold science and technology in their proper perspective.

It may be that modern civilization will have to be scratched from end to end, it may be we have to return to Rousseau's life of Nature or Gandhiji's rural life. The scientific way, the scientific method, the scientific outlook may purge the civilization of its rot and bring us back to proper life—a life of planning with reconciliation of violence and non-violence, of capitalism and socialism, of materialism and spiritualism and so on.

The benefit to mankind of science and the healthy effects of Science on education and culture cannot be denied. And men of Science,

The Power's Pick

Over 500,000 read
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1. MARCH 1952.

S.	...	2	9	16	23	30
M.	...	3	10	17	24	31
T.	...	4	11	18	25	
W.	...	5	12	19	26	
T.	...	6	13	20	27	
F.	...	7	14	21	28	
S.	1	8	15	22	29	

Answer — February (1952) Quiz.

Coal is called the 'black diamond' by its popular nickname.

San Franscisco's Golden Gate Bridge is the longest suspension bridge in the world.

The main aspects of industrial lighting are physiological, operational and psychological.

2. QUIZ.

Which plays a mighty task in nation building?

What is Edfu?

The "Elephant" trade-mark in a sheet of paper signifies — which manufacture?

3. HERE'S HOW.....

Cold treatment—we meet with cold treatment in air-conditioned rooms.

Business does not move faster as business men — thanks to air lines, locomotives, cars and buses.

The Power is an ideal gift which reminds you 12 times a year.

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THE POWER

Vol. II **MARCH, 1952** No. 6

OFFICE OF THE 19 MAR MADRAS 390

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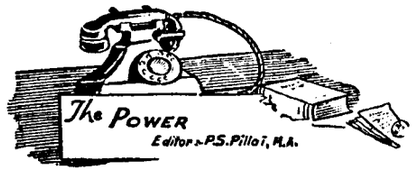

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The benefit to mankind of science and the healthy effects of Science on education and culture cannot be denied. And men of Science,

we repeat, are considered to be not only those who serve science, they must also make science serve man. The value of this service cannot be considered as something inherent in science itself. It must be determined by the use to which science is put. Only in a spirit of mutual confidence can we hope to find a true scientific basis on which a really world-wide organization for scientific co-operation can effectively operate, and only on that basis can we be sure of approaching the realisation of a lasting world peace—the first essential condition—for truly fruitful scientific labours.

★ ★ ★

FROM BUSINESS BUNCH

(Electrical Contract-Continued)

Starting a Contract:—The day-sheet and its duplicate having been typed, the one should be filed and the other laid before the manager or the engineer. The choice of a foreman is the first concern. It depends upon the nature of the contract. For the first few days the foreman so chosen will be occupied in familiarising himself with the concerned building, studying his specifications, arranging a lock-up for his stuff, getting out his main runs and so on and in arranging for the despatch of sufficient and necessary tools and material to enable him to make a start.

Instructions:—The documents to accompany the contract day-sheet are a full copy of the specifications and schedules and a set of marked plans and drawings. Besides, a sheet of specific instructions should be found. Alterations, if any, should be clearly given. The foreman should be given blue-prints of the diagrams of connections, with details of main switch-gear and cables, together with the schedules of the balancing scheme and the arrangement of circuits proposed. Other supplementary instructions about the particular work should be placed in his hands.

(To be continued)

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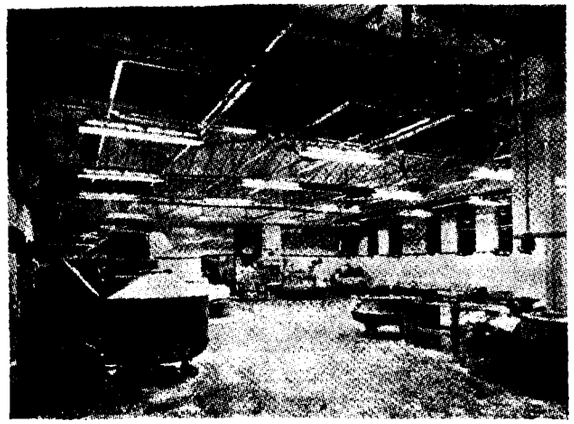
SPECIAL ARTICLE

Industrial Lighting - its Importance

(By a Correspondent)

Complex and varied are the industrial processes now-a-days, that they require perfect lighting. The lighting of industrial premises requires careful planning.

The actual task and the lighting effect are the two important factors. Factory management cannot afford to bear the waste of manpower, material, fuel, money. And the lighting suits the work and the people who do it. Lighting for work is not fully effective unless it stimulates workers to make an effort and people will not work unless they feel like it.



The structural details of the interior must, in many instances, partly dictate the nature of the installation. In all engineering projects lighting generally has to be a compromise between the ideal and the practical. An ideal scheme may require to be modified by the position of beams, columns, overhead shafting, belting etc. The position and sizes of windows may require unusual elaborate switching arrangements and more lavish installation for some parts. Special types of lighting apparatus may be required for processes which liberate corrosive fumes, dust, smoke and damp. More light is needed by the old than the young. The unskilled use their sense of vision and should be provided with the kind of lighting that helps them most. Above all, the installation should ensure easy accessibility for cleaning and replacement without discharging the work.

The other factors of importance are:

1. Industrial lighting should provide ample illumination on the horizontal plane, suitable for generel bench work on the surface of bed plates and in drawing offices.

2. In some parts of the factory, combination of horizontal and vertical illumination is necessary for general machine work.

3. Symmetrical fittings placed vertically may also be provided.

4. In some parts, the lighting may be localised in relation to the machinery etc., while other parts may receive "spilled" light only.

5. The use of hand lamps may be replaced by the method of using reflectors mounted on special racks or battens as to throw their light underneath and well inside the work.

6. In certain industries such as fuel, storage, chemical works etc., the lighting system should be of such a type as to preclude the possibility of explosion or fire caused by accidental sparking, damage, or breakage.

How to select the lamps and fittings that will produce the required results as efficiently and economically as possible? The choice will lie on

(a) the incandescent filament lamp, which is obtained in standard sizes from 15 watts to 1,500 watts;

(b) The H. P. M. V. and tubular flourescent lamps with efficiencies 2 to 3 times that of incandescent lamp and of bluish-green in light—ranging from 80 watts to 400 watts and supplemented by the introduction of a 1 Kw lamp with an output of 45,000 lumens; and

(c) The Tubular Flourescent lamp available in sizes ranging from 18" (15 w) to 8' (125w) with good colour, cool burning and low surface brightness.

In working out of the economics of the above different types of lamps, the following factors should be taken into consideration :—

(a) Price, wattage, efficiency and life of lamps;

(b) Annual KW or KVA tariff where in operation:

(c) Cost per unit of current consumed; and

(d) Annual cost of suitable wiring and fittings etc.

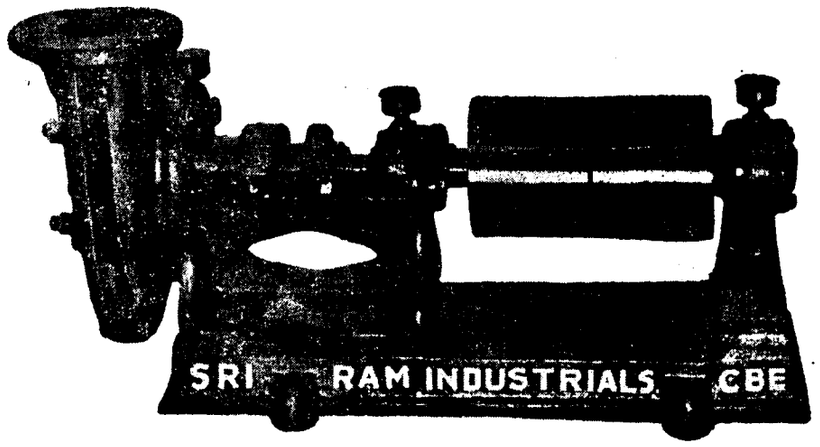
Manufacture of industrial lighting equipment have designed a comprehensive range of fittings to cover the vast majority of applications required in industry. A schedule of recommended values of illumination is also available to which references should be made before decision and choice of any industrial illumination.

ஸ்ரீ பம்புகள்

நீடித்த
உழைப்பு

குறைந்த
செலவு

நிறைய
விளைச்சல்



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CONSUMER'S COMPANION

(The Consumer of Power-Electrical and Mechanical — has every reason to keep closely in step with the fundamentals of this power and widespread modern applications. All calculations and complicated formulae have been scrupulously avoided but practical hints and notes in the form of elementary treatise are given in the POWER to be of help to the common Consumer).

REFRIGERATION

(Series—1.)

[The sphere of usefulness of refrigerations by mechanical means is constantly expanding. It finds wide use in home, in hotels and restuarants, in industry and above all in the saving of humanity from starvation and death as a food preserver. Refrigeration is understood to mean the process of securing a temperature below that of the atmosphere by the use of mechanical devices. Its main divisions are cold storage and food preservation, ice making and air conditioning and cooling. Besides, special processes are being developed so that this engineering practice is becoming increasingly important.]

HISTORICAL

Many thousands of years ago when our ancestors lived in caves and existed largely on the wild games they killed, some one made a great discovery. He found that meat which was kept in the coolest part of the cave stayed much longer than meat that was left in the heat. Later another member found that in the winter time he could do still better with his meat. He could bury it in snow or surround it with ice and kept it for weeks. So began the history of ice-refrigeration.

Long before the birth of Christ, Egypt was a great nation. The rulers and nobility of that land lived in great luxury and wanted ice. Their servants set out hundreds of shallow, clay pans of water each night. During the night a thin covering of ice formed and this was harvested before sunrise the next morning and used for cooling foods and beverages. Alexander the Great, then conqueror of India, was fond of good living. During his Indian compaign he demanded for a way to chill his wine. Hundred years later the Italians discovered a way to cool liquids artificially. They poured wine into long-necked bottles, which were suspended in containers of water, to which salt peter was added. These expensive methods for cooling or refrigerating foods could naturally be used by the wealthy class.

Winter after winter, millions of streams and lakes the world over were coated with ice. Men began to cut this ice into blocks and to pack it away in store houses where a covering of sawdusts and straw kept it from melting and so it could be used when summer came. Slowly ice preparing and selling became a regular business. In the 17th century, dealers in ice and snow were fairly common in France and frozen lemonade and other ices were sold in the streets of Paris during warm weather. A hundred years later, the ice business in America had its start. Ice houses to store ice began to be built and loads of ice were shipped across the ocean. In the middle of the 1800's an Englishman built the first home container for ice. It was called an "Ice preserver" and the forerunner of today's efficient ice refrigerators. By this time ice cream became

to be manufactured and used as food in America. Dolly Madison, wife of the fourth president, was the first American housewife to make ice cream known. A dollar for a pound of ice ! – also happened occasionally.

The cities grew and along with them, the homes, hotels and hospitals. The use of ice and cooling methods became imminent. Inventions for the manufacture of ice and refrigeration plants began with improvement after improvement. The manufacture of ice and the refrigeration in cars and railways for transport of food from one part of the world to the other became a continuous process. Now, vine-ripened honey dew melons, picked in California are brought safely to markets one to three thousand miles away. Sweet corn travel from farm to market "sealed in ice". The finest fruits and vegetables are ice protected and are carried by passengers around the globe. Research has shown that fresh produce loses up to 40% of its vitamin C content in the first 24 to 36 hours, after it is harvested, unless it is protected by refrigeration. Losses in vitamin A and B2 are also serious unless these foods are kept by refrigeration methods until they are eaten. This process, which Nature taught us to start with ice, is still the last word in protection and preservation of our food and food-products.

(to be continued)

★ ★ ★

DO YOU KNOW ?

Hotpoint Refrigerator 4·5 Cu.Ft. (English Make.)

Dimensions (Approx) { Height 48″ Width 23″ Depth 25″

MODEL H20

Things you will like about this are :

* It is a 4 Compartment refrigerator for the larger family.
* Over 2 Sq. Ft. of food storage space is available.
* The stainless steel freezer, with a door to facilitate quick freezing, is divided by a removable shelf into 2 compartments–the upper for string frozen dessets and frozen foods on ice, the lower holding 2 ice trays each fitted with a separator for making ice cubes.
* There is a separate cover compartment for salads.
* The roomy general food compartment is automatically illuminated when the door is opened and has 3 removable shelves.
* A spacious vegetable bin with a tip-down door for easy access is provided into the base of the cabinet.
* The famous sealed refrigeration system is adopted to ensure trouble-free service for life time.
* Ths unit works so quiet.
* Masterpiece of efficiency and a wonder of economy consuming less than one unit a day.
* It is so simple to operate.
* It can be cleaned quickly.
* It is covered by a 5 year protection plan on the sealed-in refrigerating systems, which include a one-year warrant on the complete refrigerator.
* It is operated on 220/250 volts, 50 cycle, single phase, A. C. current.

Ask

M/s. THE INDUSTRIAL & AGRICULTURAL ENGINEERING CO., (M) LTD.

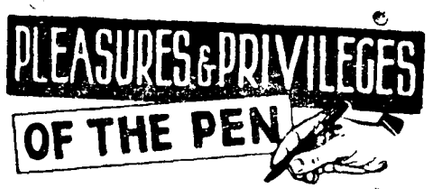
Dinrose Estate, 2/17-G, Mount Rd., Madras 2., and equip your home with 'HOTPOINT' Refrigerator which you can never forget and which you can ever enjoy.

FROM HALHEAD TO HINDU CODE BILL

Halhead's "Centoo Code" was published as far back as 1776 and was not a systematic codification as it was prepared to meet the normal requirements in India in those days. The transition is from Halhead-Code to Hindu Code which is pending and controversial legislature in the Indian parliament. This bill which stands committed to by the Congress is intended to bring about uniformity among the Hindus irrespective of sex.

Woman's legal rights to property in the Hindu Society have been unjust or inhuman. The Hindu Code Bill is an attempt to remove this chaos and confusion and bring about a sensible system based on justice and fairness. Before 1937, if a father died leaving a wife, a son and a daughter, the son inherited the whole property. In 1937, the then Central Legislature passed a legislation known as "Hindu Women's Right to Property Act" making the wife a co-sharer with her son; and the wife after 1937 succeeded to a share equal to that of a son. But that Act gave the wife only what is known as "a limited estate" in Hindu Law, that is to say, she can enjoy the income from the property but cannot do anything with the corpus thereof. Also a sole surviving daughter or daughters would inherit a limited estate to the property of the father except in Bombay. And if there be a son, grandson or great grandson, the daughter is completely excluded

The Hindu Code Bill seeks to remove this grievous injustice. The Bill, originally contemplated, underwent many changes. The unmarried daughter is to receive one half and the married daughter one fourth of the share of the son. This great charter of equal rights for women will, it is hoped, be passed in the new Parliamant.



The life we live—

Humility.

The humble man is receptive and anxious to learn. The little child is taken as an example because of his eager and teachable spirit. This spirit has been the inspiration of all truth-seekers and may be seen in the following quotation from a letter of Huxley's to Kingsley.

"Science seems to me to teach in the highest and strongest manner the great truth which is embodied in the conception of entire surrender to the will of God. Sit down before a fact as a little child, be prepared to give up every preconceived notion, follow humbly wherever and to whatever end nature leads, or you shall learn nothing."

The conceited man has a mind closed to new ideas, producing the attitude of self-sufficiency and self-importance. The prevalance of destructive criticism and the absence of constructive criticism (which requires knowledge) is a feature of our times which is often noted. The practice of Humility would check the tendency to criticise without constructive suggestion and would lead through real thoughtfulness, to a knowledge—capable of construction.

* * * *

The judging of the Gardens of Madras at the recent competition was rather difficult—that is the remark of the judges. The grass, trees and flowers, the three components of first class gardens, were properly combined in many. The harmonious and complementary association of garden and bungalow was aimed at. But, alas! vegetable gardening is practically absent. It is but right and just that garden wells should be dug and electric pumps should be fitted to divert the attention of garden growers to the task of contributing their quota in Grow-More-Food Campaign.

* * * *

Harvey Brothers.

A firm employing nearly 25,000 workers to run their 5,00,000 spindles is indeed a proud achievement of two brothers Andrew Harvey and Frank Harvey—the makers of spinning Industry in South India. The history of this firm dates back to 1870. And the success of this group of mills in Madura, Tuticorin and Ambasamudram (South India) is an example of the living spirit of British and Indian co-operation and good will.

The firm has had its long trials and tribulations before it takes a place of pride in the Indian Industry. It has come a long way from the purchase of a second-hand cotton press to the net work of spinning mills, ginning factories etc. In the late 1870's the purchase of the press was made 90 miles from Tuticorin, the then main port in the South. The year 1885 saw the starting of a mill in the jungle of the West under great handicaps of machinery transport by bullock carts, and erection by unskilled labour, and, more than all, of financial stress and strain. Water-power and not hydro-electric power was only available and this water right had to be secured against much opposition as water intended for field was in some manner to be spun into yarn.

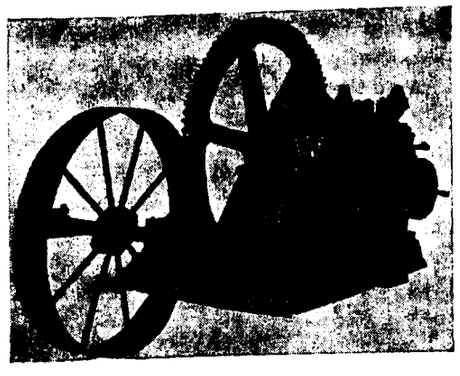
Years rolled from 1880 to 1951. This small beginning grew to the vast organisation that exists to-day. The Madura Mills reminds one and all the humble origin but the grand growth of the Textile Industry in India. Their labels are the guarantee of quality. Their chain of service to the nation lies in spinning only, leaving weaving to the hand-loom weavers scattered over this vast sub-continent.

The welfare of the workers is the primary concern of the management. The Harvey-patti Housing Colony, the Worker's Co-operative Stores are worthy of mention. At a cost of about Rs. 15 lakhs, built on a ground of 90 acres of land with rural surroundings as a co-operative venture, this self-sufficient colony with its own water, drainage facilities, schools, hospitals etc., has now become the worker-residents. The Co-operative store with a strength of 12,000 members, has a monthly turn over of about Rs. 5 lakhs and caters to all the domestic needs.

The Mills with a net-work of agents through-out the country and the important places of the world serves mankind in their primary need of clothing. This vast organisation is also vitally interested in some of the major enterprises such as the Punalur Paper Mills, Pandyan Insurance Company, the Pandyan Bank and the Pandyan Press.

Trade and Industry when organised and run on sound and systematic lines with the primary appreciation of human values and with secondary object of profit values, should certainly pave the way of increasing national wealth and the standard of living. Here is a classical example—the firm of Harveys—worthy of emulation by Indian Industrialists.

SUGAR CANE CRUSHERS
(Power Drive)



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Capacity 14 tons - Required H.P. 8

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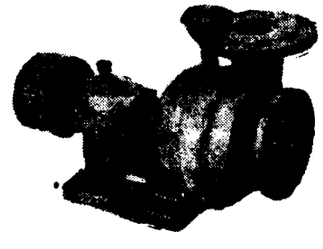


CHANDRA PUMPS

Contact :

THE CHANDRA FOUNDRIES LIMITED

55, BASIN BRIDGE ROAD, WASHERMANPET, MADRAS - 21.

Trends of Trade

(Today the world of Trade offers more and better opportunities to ambitious men and women, anxious to succeed in life that any other type of career. But competition is keen and in business as in everything else the biggest rewards go to those who have taken the trouble to perfect themselves and to increase their knowledge and efficiency.

With the professions so over-crowded, more and more of the best brains in the country are embarking on business careers. The expert moves on to the top of his profession, while others have been content to drift. The Power will prove that pride lies in performance.)

PRESENT PREDICAMENT

The present predicament in the trade world is as follows :—

The purchasing power of the people is fast going down.

The costs of living and particularly the prices of foodstuffs are high.

The lower middle classes are fast disappearing.

The costs of production are in the upward trend.

Generally the company's liquid position is not easy.

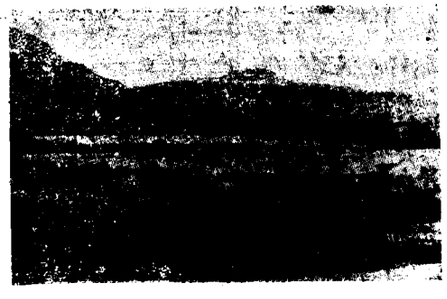
In many factories, the machinery is old.

There are signs of indiscipline and disintegration.

If things are so bad, are we going to accept defeat? The answer lies in the fact that the bold man looks forward to the future with confidence.

ON INDUSTRIAL FRONT :

The name **Cooper** is familiar to all. The Cooper Diesel Oil Engines are admirably serving all kinds of irrigation duties, hulling, milling and grinding of cereals, decorticating oil seeds, Sugar cane crushing etc., and in short, all types of cottage needs and industries. By this, India can claim to have achieved a place of pride in this important industry of manufacture of internal combustion engine, second to none in quality, workmanship, efficiency, performance and reliability. All these after the year 1932. The Cooper Engineering Ltd. works, at Satara Road, was first established in the year 1922 as a very small concern by the late Sir Dhanjishah Bomanji Cooper, to manufacture All Metal Ploughs and other Agricultural Machineries, at a price well within the purchasing-power of the peasant farmer. The company was originally styled as 'Satara Industrial works' and continued to grow. In 1932, a new Company was formed carrying the name "Hindustan Engineering and Implement Company" when Sir D. B. Cooper linked up with M/s. Duncan Stratton and Co. The manufacture of British Design Oil Engines was commenced with the result that the products found a good market. Further expansion became necessary, but in due course, M/s. Duncan Stratton withdrew their interests leaving the concern in the sole ownership of Sir D. B. Cooper. Then Seth Walchand-Hirachand acquired controlling interest in 1940 when the firm was reconstructed under the name Cooper Engineering Ltd. Seth Walchand made heavy capital investment and the works were entirely reconstructed on modern lines. Sir D. B. Cooper continued to have interest in the concern up to the time of his death in 1947. In the year 1948, Seth Walchand was unfortunately obliged to relinquish chairmanship of the company due to ill-health and Seth-Lalchand Hirachand became chairman and managing director of the company under whose able guidance the company continues to grow from strength to strength.



(A portion of the Cooper Colony)

Such in brief is the history of the Cooper Engineering Ltd, Satara, which stands situated 18 miles from Poona, covering 125 acres of lands, with its gigantic Factory occupying 16 acres employing about 2000 people. The colony is a self-contained one equipped with accommodation, water convenience, hospital, maternity home, Social and Sports facilities etc.

(A section of the Machine Shop)

To mention in brief the main features of the concern : the drawing office is managed by a very competent and qualified staff, keeping with the modern development. Improvements in design of the company's products receive constant attention to keep pace with latest developments in other countries. And close laison is maintained with Works Department and Testing Laboratory. The Power house consists of three diesel electric generating sets having total potential of 780 K. W., operating in paralled through the main switch boards and this provide all power and electric lighting to the entire factory and colony. The pattern shop is equipped with the modern machinary, facilitating rapid manufacture to extreme accuracy. The foundry section is a well-equipped one with its entire scientific process. The Fettling department perfects casting. The chemical and mechanical testing laboratory is the latest and the best. The machine shop is finest and most modern one in turning out the Cooper Diesel Oil Engines equal in every respect to any other make.

This sizable and growing industry in the manufacture of the Diesel Engine Power is the first and foremost of its kind in India and does certainly play a very important part in the industrial field of the nation.

The Indian Agriculturists and Industrialists are the largest users of the Cooper Diesel Oil Engines which are robust in design giving long life and utmost reliability and whose range is from 5 B.H.P.to 58 B.H.P. For other details ask **M/s. Marshall Sons & Co. (India) Ltd., Second Line Beach, Madras 1**, who are the sole agents.

AROUND THE MARKET :

Early February, rumours of an increase in the prices of rubber, textile decontrol, a higher retention price for steel and peace parleys in Korea were some of the factors that guided movements on the Madras Stock Exchange. Plantations came in for good activity. In the Miscellaneous section, trading Company shares were active. Parrys rose to Rs. 10–10/- and Rallis to Rs. 115–8/-cd. The tanned hides market showed signs of weakness during the period. The groundnuts market ruled steady for the major part of the week with a lower tendency at the close. In the Delhi Market, firmer advices from Calcutta coupled with bear covering, caused a spurt in the prices of Indian Iron in the Stock Exchange.

Later the attention of the Madras Market was mainly focussed on Plantations, Textiles. Bank shares were dull and sellers predominated. In the Textiles section, buyers were prominent in the Coimbatore group of shares. Conditions in the Tanned Hides market were much the same as in previous week. The demand from U. K. was small. In Calcutta, the market ruled quiet but steady round all sections and volume of business was moderate. In Bombay the reduction in the export duty on Hessians occasioned a spell of firmness. The stock Exchange betrayed renewed signs of weakness. In London, Industrialists generally were unsettled by the news of increased unemployment in the textile industry and moved lower. In New York increase in Black pepper prices were speeded up with spot bid upto 158 cents with offerings held at 162 cents level.

THE BOARD AND THE BOX

Many children especially school boys were active during recent elections in India, on behalf of their local candidates. They are the citizens of the morrow and should know that election is not merely pushing the piece of card board into the tin ballot box but something precious and sacred.

India is now a Sovereign Démocartic Republic. Every citizen of age partakes the sovereignty. He is not the king himself but he is the king maker. His franchise, that is, right to vote is a powerful and deciding factor. Once the voting is over, his sovereignty ceases; he becomes a mere subject; is completely controlled by the Government which he has put in power. Therefore if he votes wrongly, he cannot get rid of his mistake till a fresh election happens.

It is a pity that vast majorities do not realise the power and significance of their votes. They are apathetic and are swayed by the mood of the movement or the importunities of friends and relations or inducements offered in some shape or other. That is why, more often than not, the politics of a country is determined by those who do not know politics.

Universal suffrage seems to be too early for India. It took nearly a century in England to introduce universal suffrage. Anyway the children of to-day should learn before they become voters, the philosophy of the ballot-box.

For Economy & Efficiency

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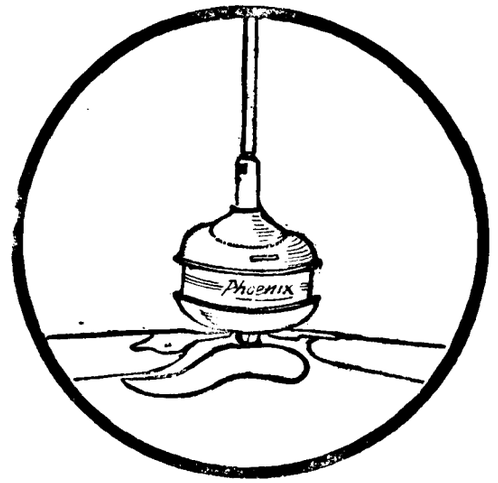

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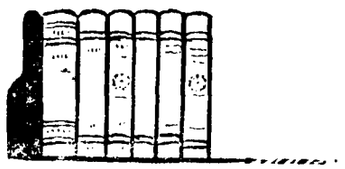


Books & Brochures

"KNOWLEDGE IS POWER"

[*Book Review is a regular feature of this monthly. Authors and Publishers are requested to send in their latest publications to the Editor*].

Dielectric Phenomena in High Voltage Cables

By Mr. D. M. Robinson,—Research Engineer. (London Publication)

This is a series of Monographs of Electrical Engineering. The advances made whithin the realm of electrical engineering during the 20th century have been phenomenal. Due to the advent of the electronic tube and its application in both the power and communications branches, certain aspects of electrical engineering practice have been completely revolutionized. The electrical engineer finds it necesary to do a considerable amount of reading in order to keep abreast of modern development. The aim of this series is to give a modern orientation of a particular subject within the confines of a small book.

This book is of 173 pages divided into 11 chapters with copious illustrations. The introductory part deals about Dielectric in the laboratory and in practice. The chapter on A.C. and D.C. Phenomena is interesting. There is a chapter on Formation and Significance of voids. The book very well closes with the chapter on cable design.

The Principles of Electric Welding Metallic Arc Process

By R. C. Stockton (Sir Issacc Pitman & Sons Ltd., London).

The object of this handy book is to supply knowledge for operative or potential metallic arc welders with its principles. It is divided into 6 chapters with many illustrations. The properties of metals, the thermal and other methods of Joining metals, metallic arc welding, examples of welding practice, testing after welding followed by electric notes form the sequence in treatment. It is a very useful guide for the professional in this line.

General :

A CONSUMER'S DEMOCRACY

(By the Co-operative Wholesale Society Ltd.)

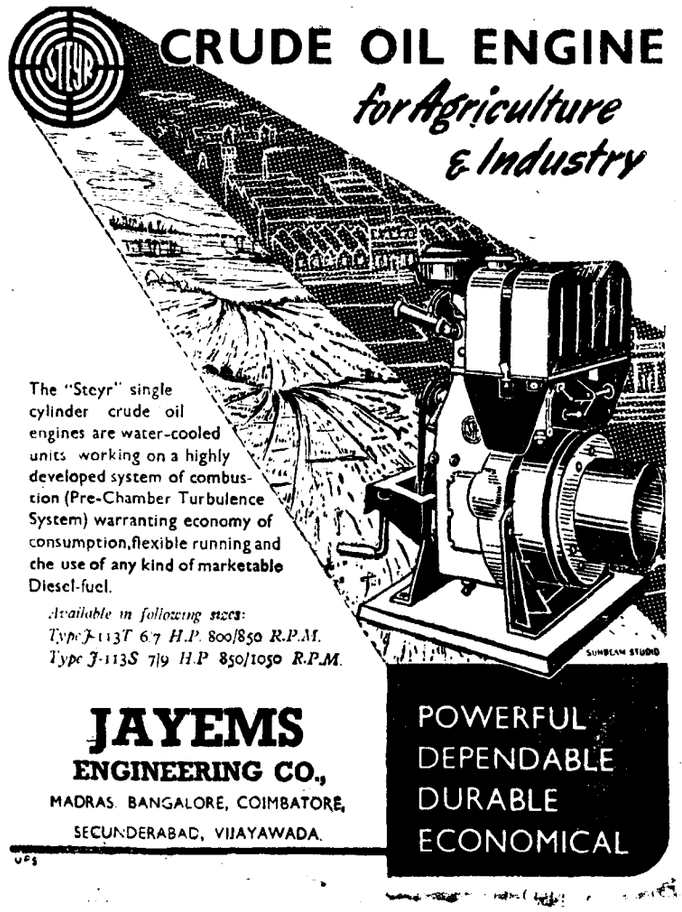
To-day the Co-operative Wholesale Society Ltd., is the largest co-opertive trading organisation of the world. Its productive undertakings, its world-wide commercial enterprises and its vast financial resources provide a unique example of democratic achievement.

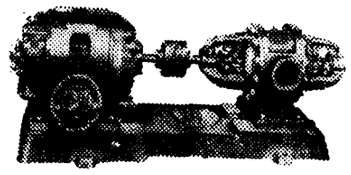
In this consumer's democracy will be found the answers for laying sound foundations of successful experiment in mutual aid, the springing of the inspiration and courage for this collectively owned organization.

This attractively presented volume of 160 pages with copious illustrations gives much food for thought to the real co-operator.

Addition to Power's Library

Madras in Maps & Pictures — (Published by Government of Madras.)





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DELHI DIARY

There was no excitement and expectation regarding the annual Central Budget–the Care–taker budget–which was presented by the Finance Minister in Parliament. There was general satisfaction over the financial position of the country. The main background of the budget was arresting inflation and rise of prices, increasing production and meeting the large food dificit. There was to be no change in the existing tax structure.

A great woman of the world, Mrs. Eleanor Roosevelt was in New Delhi on a short stay at the invitation of the Prime Minister. A lover of democracy with great faith in goodwill and patience, her great personality would certainly cement the friendship between the United States and India.

Dr. Frank Graham, United Nations Mediator on Kashmir, came to New Delhi to assist India and Pakistan reach agreement on the remaining points of difference–the quantum of armed forces to be left in Kashmir after demilitarisation and the timing of induction of the plebiscite Administrator. He was hopeful of the solution of Kashmir problem.

★ ★ ★

CAREERS & COURSES

(All India Educational and Cultural Monthly)

EDITED BY: PRITHVINATH BHAT, M. A.

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News & Notes

"What'ever the busy bustling world employs,
Our wants and wishes, cares and joys,
These the "POWER" of our time display,
And call them News and Notes,-the hodge Podge of the day."

PERSONALITIES

The world mourns the death of **King George VI of England.** Born in 1895, second son of King George V and Queen Mary, the late king succeeded to the throne in 1936, after the abdication of his elder brother, King Edward VIII. His early days were spent in close contact with ordinary children. Usually called the 'Johnson' of the family, he acquired a taste for serious reading of all sorts. His physical training was also sound. At 14, Prince Albert as he was then called entered the Naval Training College of Osborne as a cadet. In 1913 he was made midshipman and appointed to H. M. S. Collingwood, a battleship. The First World War broke out. Then he joined the Royal Naval Air Force at Cranwell. Later he went to Cambridge and studied economics, history and civics. Soon after he left the University, he was created Duke of York. In 1923 his engagement with Lady Elizabeth was announced.

The Duke interested himself keenly in industrial problems about this time and was already a recognized leader in the movement to promote labour welfare. Factories, Coalmines etc., were the scenes of his frequent visits, his personality commanding respect and affection. The Duke and Duchess visited unofficially East Africa, Austrialia and New Zealand.

On May 12, 1937, the Duke and Duchess were crowned king and queen of England. For over 15 years – not a happy period for the whole world-he worked hard and conscientiously for the well-being of his people. The terrible world-War II came in 1939. The King and Queen were Ministers of morale when London was burning at the instance of Hitler The chief event following the end of the war was the independence of India and his message on the occasion was characteristic of the warmth and affection with which he had always regarded India.

King George's last christmas broadcast came from a generous man, no autocrat, no idler, no lover of pomp and ceremony, a man of study, a man of peace, a man of God and in short in the finest sense, a Monarch.

"We are living in an age which is often hard and cruel, and if there is anything that we can offer to the world to-day perhaps it is the example of tolerance and understanding that run like a golden thread through the great and diverse family of the British Commonwealth of Nations."

So was laid to rest King George VI among his ancestors of kings for nine centuries: **"Earth to earth, ashes to ashes, dust to dust."**

Once again a woman, Princess Elizabeth, elder daughter of King George VI, ascends the throne of England. Her father's example would be a tower of strength to provide her courage and inspiration in her responsible role as a Sovereign.

MATTERS

Inside India —

The release of India's blocked sterling balances which began in 1947, is scheduled to

come to an end in 1957. India's sterling balances, which stood at £ 1137 million on Independence day have been brought down to £ 570 million at present. The actual amount drawn by India so far is only £ 134·25 millions after adjustments for pensions annuities, military stores and transfer of amount to Pakistan. Inspite of the agreement set out in the letters exchanged between Mr Bulter and Mr. Deshmukh which provides for further consultations before the termination of the principal agreement, it is hoped this blockade and blocking of the balances will be ended by June, 1957.

The 5-point suggestion by Mr. Nehru, for the reorganisation of the Congress in his circulars to all Pradesh Congress-Committees is an effective instrument. The five suggestions are (1) The need for discipline, (2) Continuous personal contacts with the masses, (3) Hard work among and with the people, (4) Making the people understand Congress problems and policies and difficulties and (5) Attracting fresh blood and vital people to the Congress. It concludes with an appeal to function as a disciplined army.

After seven days' stay in London Sheikh Mohammed Abdullah, Prime Minister of Jammu and Kashmir, returned to India. He had attended the recent Security Council meeting in Paris and acquainted the members with various aspects of the Kashmir problem. He and Mr. Ghulam Mohammed Sadiq President of the Kashmir-Constituent Assembly were convinced that the recent disturbances in Jammu were foreign sponsored and wanted the people of India to help the solution of Kashmir problem.

The 2nd All-India Conference of the Indian Rationalist Association was held at Tenali. Dr. S. Chandrasekhar presided. An appeal was made to solve the caste system in India which had cut and recut the Indian society into myriad bits. The address of Mr. M. N. Roy pointed out that the germs of modern science grew in the womb of the dark Middle Ages which were dominated by the mysticism of a so-called revealed religion and that ultimately reason triumphed over faith in a struggle which lasted for a whole millennium.

Inside Europe —

Europe in particular focussed its attention over the death of King George VI in England. Heads and representatives from several states of Europe went to London to pay their last act of homage to the English monarch.

The slow progress in the Western defence in Europe is worthy of note. There is a fear especially in the French mind that "America may put all its eggs in the German basket." However the choice is not between the European army and a military vacuum in Germany.

Inside Asia & Africa.

Egypt has signified its readiness to co-operate in the maintenance of world peace through a strong and remodelled regional orgiansation functioning within the framework of the United Nations. They claim respect of their rights and legitimate aspirations.

Sports, Art & Pastimes.

A great victory in cricket was achieved at Chepauk (Madras) by the Indian Team against the M. C. C. It was India's first trumph in an official Test Match. Mankad bowling was responsible for England's moderate total in the first innings. Roy, Umrigar and Gopinath consolidated India's position by their brilliant batting. The different ideas of Ghulam Ahmed caused collapse of the M. C. C. Team in 2nd innings and the spectators were trated to an innings victory. Hazare had revealed leadership of a high order and the balanced team under his captaincy brought victory to India. The Indian team will no doubt give a good account of itself in the series of Tests with England.

The world table Tennis Championships have ended successfully at Bombay. Japan swept the board. Her victory imported into the game new methods and tactics. Thiruvengadam a youth contender on the Indian side is a good inspiration for the development of table tennis in India.

The Asian Tennis Championships staged at Colombo in which 9 nations took part provided thrilling games and a good deal of new tactics, scorching services, brilliant returns, a variety of strokes to Tennis Fans.

The All-Indian Olympic Games held in Madras at the Corporation Stadium after a break of 20 years amidst pleasant surroundings provided play-walk-race leap-swim-cycle box etc., by men and women from all over India.

At the instance of the Government of India, the film festival in big cities was organised as to enable the Indian public to get an idea of what the cinema is capable as a serious art medium The visit of the delegates from various countries to this festivel as a result of their personal contacts, has' contributed a good deal to the Indian Film Industry-the second biggest in the world.

The demand for British thorough-breds from various parts of the world is steadily growing, is the remark made by Mr. R. F. Watson, Chairman of the Newmarket Bloodstock Ltd, who was in India recently to study the possibilities of increasing the export of British thorough-breds in this country. He expressed the confident hope that racing would be continued in India.

In a Few Lines

MEN

Mr. Sri Prakasa, Minister of Govt. of India, is appointed Governor of Madras — a choice welcomed by all sections in the State.

Mr, Black, President of the World Bank, has completed his 12-day tour in India. He was favourably impressed with the economic and industrial progress of the country.

★ ★ ★

MATTERS

It is a tragic joke that the Communists should go round forming democratic fronts. Communism and Democracy are a contradiction in terms — so said Mr. J. P. Narayan, the socialist leader.

A net surplus of Rs. 25 crores for 1952 — 53 in Railway Budget was announced in the Indian Parliament by the Railway Minister. The surplus for 1951 — 52 was Rs. 22 crores.

The truce talks in Korea are making slow progress.

SPARE PARTS!

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Here & There

(Those who read the Power may be able to find here a fun and there a frolic, here a pinch and there a punch, here a soup and there a saucer.)

TALLNESS:

Tall persons, like tall houses, are usually ill furnished in the upper storey

THE POINT:

The per capita consumption in paper in various countries illustrate the point :—

U.S.A.	360 lbs.
U.K.	154
Sweden	85
Germany	77
Egypt	4
India	1

COLD TREATMENT:

Cold treatment is made out to the rich few in their air-conditioned rooms.

THE BEGINNING AND THE END:

A post-card addressed by one from Srirangam to Mr. P. S. Kumaraswamy Raja, Chief Minister of Madras, at the time when he was elected leader of the Congress party, reached him after 3 years—start at the beginning and goal at the end, of his regime.

4 CLASSES :

The first class readers are like hour glass running in-and running out. The second class resembles a sponge which imbibes everything and returns it in nearly the same state, only a little dirtier. The third class is like a Jelly-bag which allows all that is pure to pass away and retains only the refuse and drags. The fourth class may be compared to the slave of Colconda, who casting aside all that is worthless, preserves only the pure gems

S. T. Coleridge.

TENDER:

"Sir, I want to tender my resignation" "Never mind, make it tender—make it brief".

MAN & WOMAN:

Wise men, like wine, are best when old ; pretty women, like bread, are best when young—Sam Slick.

WHAT IS MONEY:

Money is shaped like a wheel : it rolls to some, from others ; but seldom is at rest.

MORE & MORE:

More and More are the wrong numbers which the Telephone Company is getting day by day.

STRANGE:

The women in Egypt had not yet got the right to vote.

THOUGHT FOR THE MONTH:

"Great truths are dearly bought, the common truths,
Such as men give and take from day to day,
Come in the common walk of easy life,
Blown by the careless mind across our way."

Madras Markets

1. **Is regular every month.**
2. **Publishes current prices in electricals and mechanicals.**
3. **Contacts suppliers and buyers.**
4. **Maintains free service to regular subscribers**
5. **Offers assistance for business careers & trips**

While the management takes great pains in publishing accurate prices gathered from reliable business firms and stockists of repute, it is no way responsible for the inaccuracies, if any, which may be caused due to fluctuations prevailing.

We invite your enquiries on all items not listed here. The management is at your service at all times.

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	Rate.			per doz.
	RS.			
SWITCHES				
Bakelite English, S.P. 5 amps ...	15	0	0	,,
Bakelite Indian, S. P. 5 amps ...	8	0	0	,,
Porcelain base English S.P. 5 amps ...	18	0	0	,,
HOLDERS				
Bakelite Pendant Eng. ..	8	0	0	,,
,, ½" ...	10	0	0	,,
,, ⅝" ...	12	0	0	,,
Batten Holders ...	10	4	0	,,
P.B. Holders English ...	16	0	0	,,
,, ½" ...	14	0	0	,,
,, ⅝" ...	16	8	0	,,
Batten ...	16	8	0	,,
Adoptor (Bak) ...	7	8	0	,,
CEILING ROSE (2 plate Bak)				
English ...	8	0	0	,,
Indian ...	5	8	0	,,
Cutouts (English) ...	3	4	0	,,
WALL PLUG				
Bakelite 5 amps 2 pin complete (Eng.) ...	12	0	0	,,
,, 3 pin...	27	0	0	,,
SHADES & REFLECTORS				
Enamel Iron Shades 8"..	7	8	0	,,
,, 10" ...	12	8	0	,,
Water Tight Fittings complete Indian ...	6	4	0	Each
WIRES & CABLES				per coil of
V.I.R. C.M.A. 1/18 ...	26	8	0	100 yds.
,, 3/20 ...	40	8	0	,,
,, 7/22 ...	50	9	0	,,
,, 7/20 ...	66	5	0	,,
,, 7/16 ...	143	4	0	,,
C.T.S. Single Core 1/18	45	12	0	,,
,, ,, 3/20	64	13	0	,,
,, ,, 7/20	97	12	0	,,
Twin core 1/18	71	2	0	,,
,, 3/20	120	11	0	,,
,, 7/20	190	7	0	,,
V.I.Proof Sgle. Core 1/18	40	3	0	,,
,, ,, 3/20	59	12	0	,,
,, ,, 7/20	94	9	0	,,
,, Twin Core 1/18	76	13	0	,,
,, ,, 3/20	113	0	0	,,
,, ,, 7/20	182	11	0	,,

FLEXIBLE WIRES

	14/36			23/36			
Cotton	39	0	0	40	0	0	,,
Workshop Flex							
2 core	62	3	0	74	1	0	,,
3 core	92	0	0	108	14	0	,,

P.V.C. WIRES EQUAL TO V.I.R. (from I.A.E.C.)

250 v. Single Core P.V.C. insulated wires

1/044	Cat No. 2120	18	0 0
3/049	2121	24	0 0
1/064	2122	27	0 0
3/036	2123	30	2 0

EQUAL TO C.T.S.

1/044	2120 S	34 11 0
3/029	2121 S	43 3 0
1/064	2122 S	48 0 0
3/036	2123 S	53 5 0

TWIN FLAT

1/044	2220 S	55 8 0
3/036	2223 S	101 8 0

250 V. Flex wires single core P.V.C. insulated

14/0076	2141	15 1 0
	2141 B	12 1 0
23/0076	2142	20 2 0
	2142 B	15 14 0

Other items on enquiry.

LAMPS (B.C. Clear 230/250 volts.)

	RS.	A.	P.	per doz.
5 Watts ...	16	8	0	,,
10 ,, ...	15	12	0	,,
15 ,, ...	14	4	0	,,
25 ,, ...	14	4	0	,,
40 ,, ...	14	4	0	,,
40 ,, gas filled	16	8	0	,,
60 ,, ...	18	0	0	,,
100 ,, ...	24	0	0	,,
150 ,, each ...	3	7	0	
200 ,, ,, ...	5	7	0	

II. METERS

HOUSE SERVICE

A.C. Single Phase 230/250 volts, 50 cycles

	2½ amps.	5 amps.	10 amps.	Each
Ganz	36 0 0	36 0 0	36 0 0	,,
C.G.S.	38 8 0	38 8 0	38 8 0	,,
Ferranti	43 8 0	43 8 0	43 8 0	,,

GANZ, 3 PHASE, 3 WIRE METERS, A.C.

	RS.	Each
10 amps	105	,,
20 amps	120	,,
30 amps	130	,,
50 amps	155	,,

GANZ, 3 PHASE, 4 WIRE METERS, A.C.

10 ,,	145	,,
20 ,,	168	,,
30 ,,	182	,,
50 ,,	217	,,
100 ,,	272	,,

AMMETERS VOLTMETERS (English)

Ammeters 4" dial 0-10 amps	52	8	0	,,
0-20 ,,	52	8	0	,,
0-30 ,,	52	8	9	,,
Voltmeters 6" dial 0-60 volts	75	0	0	,,
0-120 ,,	80	0	0	,,
0-160 ,,	85	0	0	,,
0-230 ,,	90	0	0	,,

for use on A.C. or D.C.

III. MISCELLANEOUS

ZINC PIPES

11 m.m.	3	4	0	per length
16 m.m.	4	12	0	,,
11 m.m. Elbows	1	8	0	per doz.
16 m.m. ,,	2	0	0	,,

CONDUIT PIPES

	¾"			1"			
English	54	0	0	85	0	0	100 ft.
Indian	45	0	0	60	0	0	,,

BRACKETS & GALLERIES

P.B. Brackets	6	8	0	8	4	0	per doz.
O. C. ,,	8	0	0	9	0	0	,,

D.C.C. WIRES

16 S.W.G. ...	4	4	3	per lb.
17 S.W.G. ...	4	9	3	,,
18 S.W.G. ...	4	11	6	,,
19 S.W.G. ...	4	14	6	,,

INSULATING MATERIALS

Henley Black insulating tape ½" ...	6	4	0	per 100-yards
tape ¾" ...	9	5	0	,,
Callenders ½" ...	1	9	0	25 yards-roll

TRANSFORMERS

English Victor V & E, 6.8 volt ...	4	8	0	each

LINK CLIPS

Camel brand tinned joint clips 1¼" & 1½", 1¾" & 2"	0	5	6	per box

HARD DRAWN BARE COPPER WIRE

No. 4 S.W.G.	2	1	0	per lb.
,, 6 ,,	2	1	0	,,
,, 8 ,,	2	1	0	,,

FLOURESCENT FITTINGS

Sylvania 4', 40 W. lamp day light	17	12	0	each
Philips Holland 4', 40 W.	18	4	0	,,
Sylvania 2', 20 W. daylight	13	8	0	,,
Philips Holland 2', 20 w.	13	0	0	,,
Upadhyaya 40 W. Choke (India)	5	14	0	,,

HEATING & COOKING APPLIANCES

230 V. Water Heater (Eng.) 700 W	12	0	0	,,
Auto Control Iron A.C./D.C.	27	0	0	,,
Stove (Eng.) 1000 W.	25	0	0	,,
Soldering Iron (Eng.) 65 W	14	8	0	,,
125 W	25	0	0	,,

IV. OTHER ITEMS

MERCURY VAPOUR LAMPS [Complete with Choke and Condenser].

	RS.		
80 Watts ...	150	0	0
125 Watts ...	175	0	0
250 Watts ...	225	0	0

CONVERTORS

Rotary convertors, compound wound fitting with heavy duty ball bearings, constant speed, Drip proof, 0.8, P. F. complete with starter (Eng.)

Size in K.V.A. D.C. in put A.C. out put 50 cycles. single phase.

			Rs.	A.	P.
1	220/110 volts	...	950	0	0
2	220/110 ,,	...	1,350	0	0
3	220/110 ,,	...	1,650	0	0
4	110/110 ,,	...	1,650	0	0

GENERATORS

D.C. 110 volts

3 KW 1400 R. P. M. Generator Rs. 1,350 Regulator Rs. 96.

5 KW 1400 R.P.M. Generator Rs. 1,450, Regulater Rs. 110.

A.C. Columbia 0.8 P.F. 3/50/440, star connected 4 wires (220/230 volts) between a phase and neutral wire, suitable for belt drive and direct coupling complete with exciter etc.

K.V.A.	K.W.	R.P.M.	Price
31.5	25	1000	Rs. 5,750
50	40	,,	Rs. 6,750
62.5	50	,,	,, 7,250
75	60	,,	,, 8,250

Onam A.C. Generating set

Model W3M, 115 volts 50/60 cycles, (dial speed), Generating set, with 2 cylinder engine etc. ... Rs. 1,750

ELECTRIC BLOWER

Wolf type NWB portable blower suitable for operation on single phase, A.C. 50 cycles and D.C. 230/250 volts complete with starting switch, 15 feet 3 core T.R.S. Cable, moulded hard rubber, nozzle 11" long, capacity 60 cubic feet per minute ... Rs. 350

Also Wolf Electric Drills of various types and spares available from ready stock.

Other makes on application.

(M/s. Rallis India Ltd.)

ELECTRIC COFFEE GRINDERS & ASTORERS

Mocca (Swiss) No. 2 with 1/3 H.P. Motor A.C. 230/250 volts, single phase, 50 cycles complete with container of 2 lb. interruptor with electric cable 1½ meter at output of 50 lb. per hour ... Rs. 850

Bharath (Indian) Coffee grinder No. 1 size capacities 30 to 40 lb. per hour suitable for 1 H.P. ... Rs. 250

FANS

Table Fans (fixed) A.C.

	Size	Rs.
Phoenix	14"	97
,,	16"	102
Kassels	16"	125

Ceiling Fans A.C.

Complete with regulator, rod etc.

	Size		Rs.
Crompton	60"	Indus	200
,,	50"	Kistna	182/8/0
,,	48"	Sutlej	170
Lucky	60"		180
,,	56"		168
,,	48"		160
,,	36"		130

Kassels and Anand and Azad on enquiry.

Phoenix	60"	194
,,	56"	179
,,	48"	166
,,	36"	136

I.E.W. Fans

Bharat A.C. Ceiling fans

Major	72"	212
Super Senior	60"	196
Senior	56"	180
Standard	48"	170
Junior	36"	144

Ranjit A.C. Ceiling fans

Super Senior	60"	180
Senior	56"	170
Standard	48"	160
Junior	36"	135

Tara A.C. Table Fans

Fixed	14"	115	plus Rs. 8-8-0 extra
Oscillating	14"	130	
Fixed	16"	120	
Oscillating	16"	135	

For D.C. Fans, Cabin fans and Pedestal fans Etc. Prices on application.

Jaura A.C.

Ceiling Fans	36"	130
,,	48"	155
,,	56"	170

Chandan A.C.

Table Fans	14" OSC	140
	16" OSC	160

Exhaust Fans A.C. 230/250 volts, single phase.

Blade size	R.P.M.	Air Displacement cft.	Consumption.	Price. Rs.
7½"	1200	250	25 watts	95
12"	1350	1250	80 ,,	210
15"	1200	1500	110 ,,	210
24"	700	5300	270 ,,	475

D. C. exhausts fans on application.

V. MOTORS & SWITCHES ETC.

ELECTRIC MOTORS

Make—Crompton Single phase, 230/250 volts, 50 cycles Capacitator type

H.P.	R.P.M.	Rs.
·5	1430	190
¾		225
1	1420	267/8

3 phase, 400/440 volts. 50 cycles

H.P.	R.P.M.	Rs.
3	1430	365
5	1430	487/8
7.5	1430	600
10	1440	665
10	940	840
15	1440	825

Make—L. S. E. 3 phase, 400/440 volts, 50 cycles

H.P.	R.P.M.	Rs.
3	2880	327
7.5 (Emcol)	960	800

Pulley and Rails extra.

N.E.I. Squirrel Cage Induction Motor suitable for A.C. 3 phase 400/440 volts 50 cycles supply.

SCREEN PROTECTED TYPE MOTORS

H.P.	RPM 960	1440	2800	
1	Rs. 285/-	Rs. 254/-	Rs. 284/-	each.
1·5	Rs. 333/-	Rs. 275/-	Rs. 309/-	each.
2	Rs. 369/-	Rs. 297/-	Rs. 329/-	each
3	Rs. 465/-	Rs. 347/-	Rs. 370/-	each.
5	Rs. 600/-	Rs. 475/-	Rs. 452/-	each.
7·5	Rs. 700/-	Rs. 575/-	...	each.
10	Rs. 825/-	Rs. 645/-	...	each.

Prices. Less 5% to consumers.
Less 7½ % to dealers.
(M/s, Batliboi & Co.)

SWITCHES & STARTERS

				Rs.
M.E.M. D.P. 15	,, 250	,, 122 K.A.	,,	8
M.E.M. T.P. 15	,, 500	,, 315 K.A.	,,	18
M.E.M. T.P. 30	,, 500	,, 330 K.A.	,,	24
M.E.M. T.P. 60	,, 500	,, 360 K.A.	,,	52
M.E.M. 10 S.D. starter			,,	75
M.E.M. 5 D.S.	,,		,,	55
M.E.M. 44 A.D.S.	,,		,,	37/8
M.E.M. 24 A.D.S.	,,		,,	36
M.E.M. 84 A.D.S.	,,		,,	40

M.E.I. Direct on Line Starter upto 5 H.P. ... ... ,, 68
M.E.I. Air Break Star Delta Starter up to 12.5 H.P. ... ... ,, 136
M.E.I. Air Break Star Delta Starter up to 13 to 20 H.P. ... ,, 153
(M/s. I.A.E.C.)

TIME SWITCH

Venner type MDISL time switch self-starting synchronous motor driven, single, pole, A. C. 230/250 volts, 50 cycles, 15 amps capacity with arrangements to switch on and off automatically at predetermined timings Rs. 125. Other types on application.

VI. PUMPS & PUMPSETS

SRI PUMP for direct coupling.

Size	A impeller	B impeller
2″×2″	Rs. 220	Rs. 230
2½″×2½″	Rs. 235	Rs. 250
3″×2½″	Rs. 244	Rs. 250
3″×3″	Rs. 250	Rs. 259
4″×3″		Rs. 339
4″×4″		Rs. 344

—for belt drive with fast and loose pulleys

	Rs.
2″×2″	230
3″×2½″	250
2½″×2½″	255
3″×3″	290
4″×3″	295
4″×4″	365
5″×4″	370 less 10%

SHIVAJI SELF PRIMING PUMPS

2½×2½″	280
3″×3″	280
3″×3″ (heavy duty)	297

(used for direct couple or V belt drive)

SIGMA PUMPS

Type NL 4. 2½″×2½ 450
Type N. 62a. 3″×3″ 450
Sigma type N62a. R3″×3″ pump with flexible couplings and a 4 H.P. BTH. 400 volts, 3 phase, 50 cycles, 2800 R.P.M. Motor complete with suitable starter without Bed Plate **Rs. 800**

PUMPS (Chandra Foundries)

4″ Pump with fast and Loose pulley Rs. 320
3″ ,, ,, Rs. 250
4″ Pump with single pulley or Flex. Coupling ... Rs. 290
3″ ,, ,, ... Rs. 230
2″ ,, ,, ... Rs. 180
1″ ,, ,, ... Rs. 115
"ZANINDAR" Cane Crusher ... Rs.1150
"KISAN" Cane Crusher ... Rs. 850
Ex-works-plus Sales-Tax. Prices subject to alteration without notice.

O. K. PUMPS

3″×4″	...	Rs. 330 0 0
2½″×3″	...	Rs. 275 0 0
2″×2½″	...	Rs. 220 0 0

O. K. Flour Mills fitted with imported grinding stones and ball bearings
16″ size ... Rs. 580 0 0
(M/s. East Asiatic Co., (India) Ltd., First Line Beach, Madras.)

"Empire" Rice Huller with Polisher & pulley No. 1 ... Rs. 400
"Empire" Rice Huller with Polisher & Pulley No. 3 ... Rs. 250
"Empire" Rice Huller with Polisher & Pulley No. 7 ... Rs. 350
"Rice Huller with Pulley and without Polisher No. 2 ... Rs. 200
Rice Huller with Pulley & Without Polisher No. 4 ... Rs. 110
Rice Huller with Pulley & Without Polisher No. 8 ... Rs. 175
Empire Flowr Mill with Pulleys 10″ Rs. 275
Empire Flowr Mill with Pulleys 12″ Rs. 300
Empire Flowr Mill with Pulleys 14″ Rs. 475
(M/s. New Demellows Foundry, Madras 12.)

AUTOMATIC DEEP WELL PUMPSETS

Myers Self-oiling automatic water system 340 gallon per hour at a height of 100 ft. with ¼ H.P.A.C. motor with 42 gallons pressure tank, automatic switch ... **Rs. 1,175**

Goulds' Best American make C.I.D.C. 3542 pump set comprising 42 gallon pressure tank with fittings, floating switch pressure guage worked by means of V belt with ¼ H.P. A.C. single phase, 230 volts, 50 cycles motor for automatic ... **R. 850**

MECHANICALS

VII. DIESEL OIL ENGINES

RUSTON (vertical)

Engine	Cylinder	H.P.	R.P.M.	Price. Rs.
1 V.T.H.	1	5-7½	1000-1500	2,100
2 V.T.H.	2	10-15	1000-1500	2,650

PETTER (vertical)

A.V. 1	1	5	1,500	1,450
A.V. 2	2	10	1,500	2,250

NATIONAL (horizontal)

A.H. 1	1	5	1,500	1,650
J.B.	1	10	500	4,150
K.B.	1	12	500	4,650

H. M. G. (vertical)

IS 16	1	10-12	800-1000	3,250

LISTER (vertical)

3—1	1	3½	650	2250
5—1	1	6	600	2950
10—2	2	12	650	

YANMAR (horizontal)

S—4	1	4	750	1,150
S—6	1	6	700	1,650
H—10	1	10	600	2,500

ROBEY (Single Cylinder Horizontal)

Diesel Engine Type
HSO/16 23 H.P. Rs 8,850/- each
,, Type HSO/16A 26 H.P. Rs. 10,800/- each
,, Type HSO/17 40 H.P. Rs. 15,900/- each
,, Type HSO/20 50 H.P. Rs. 18,900/- each
All F. O. R. Madras—Subject to price confirmation.

LORENZ (horizontal)

	Cylinder	H.P.	R.P.M.	Rs.
E.B.N.	1	7	1,300	2,000
		less 10% to customers		
		,, 15% to dealers		

SKODA (vertical)

I. S. 110	1	10-15	1,500	2,875
		less 10% to customers		
		,, 15% to dealers		

Ready stocks of Skoda 20/30, 40/60 and other H.P. with M/s. Rallis India Ltd., Madras-1.

COOPER OIL ENGINES

Cooper, (horizontal)	H.P.	R.P.M.	Price
1. R.C.A.	5/6	700	2,150
2. R.C.B.	8/9	550	3,463
3. R.C.C.	10/11	500	3,895
4. R.C.D.	13/14	450	4,390
5. R.C.E.	16/18	400	4,975
6. R.C.F.	18/20	375	5,185
7. R.C.G.	25/27	360	8,400
8. R.C.H.	28/31	340	9,465

SHANKS (vertical)	Cylr.	H.P.	R.P.M.	Rs.
	1	8	1,200	1,900
B-F Sanders (21)	1	6-8	1000-1200	2,160

(all cold start engines).

DAIHATSU DIESEL OIL ENGINES

Horizontal Model -

Type No. OH-5, 9 H.P.
700 R.P.M. Rs. 2,800/- each
Less 5% to customer.
Less 5% and 5% to Dealers.
Type No. OK-9. 5/6 H.P.
1000/1200 R.P.M. Rs. 1800/- each
Less 10% to customer.
Less 10% and 5% to Dealers :
(Messrs. Batliboi & Co.)

VIII. HARDWARE

GALVANISED PIPE FITTINGS (local)

	2″	2½″	3″	4″
Bend	4 8	9 0	15 0	17 8
Elbow	3 8	6 4	7 8	15 0
Coupling	2 0	2 4	2 8	4 4
Tee	3 12	6 0	8 0	16 0
Flange	3 0	3 12	4 8	6 8

BELTING

	Indian	English	
2″	1 4	2 12	per ft.
3″	1 12	3 8	
4″	2 4	5 0	
5″	3 0		
6″	3 8		

HOSES

Suction	Ply	Price
2″	3	3 12
2½″	3	4 8
3″	3	4 12
Delivery (Armoured)		
2″	3	2 12
3″	3	3 8

FILTER POINTS

Size	Indian	American
1¼″	20 0	45 0
1½″	32 0	52 0

Vertical	H.P.	R.P.M.	PRICE Rs.
"Russell Newbery"	7/10	8000/1200	3135/-
,,	10/12	1200/1500	3355/-
"Claeys"	9.5	600	3345/-
-do-	12/14	650/750	3650/-
"Steyr"	7/9	850/1050	2685/-
Horizontal			
" Imperial–Keighley"	15/16	490	5756/-
-do-	23/25	400	7500/-
-do-	26/28	430	7750/-
"Campbell"	15/16½	450	5750/-

All Single Cylinder—
M/s. Jayems Engineering Company, Madras.

PULLEYS

Dia (inch)	2″	37	8	85	0
8	4″	5″	Phase	6	7″
10	1″	1¼″	1½″	bore at as	12 per inch
12		2″	,,	,, 14	,,
16					

FOOTVALVES

Size	Price
2″	15
2½″	18
3″	20
4″	28

FLOUR MILLS

Make	Size	R.P.M.	H.P. (required)	Out put	Price Rs.
Indian	10″	600	3—4	200 lbs.	275
,,	12″	550	4—5	300 lbs.	350
,,	14″	550	5—6	400 lbs.	350

RICE HULLERS

Make	Size	R.PM.	H.P. (required)	Out put	Price Rs
Indian	No. 1	750	20—22	50 bags	450
,,	No. 7	850	12—15	30 bags	400

D SINTEGRATOR

Size No.	R.P.M	H.P. (required)	Price Rs.
0	5000	4—8	850
1½	3300	8—16	1,600
2½	2500	12—25	2,750

Other items on enquiry

★ ★ ★

PANEL ADVERTISEMENTS

Charges under this section are Rs. 30/- per column of 1 inch per year, (minimum contract for one year.)

Pulleys, W. I. & C. I.
Malhotra Mill Store Co.,
39, Thambu Chetty St., Madras.
Telephone No. 3508.

TO LET

Industrial Stores Trading Company,
11, Mclean St., 1st Floor
G. T. Madras.

WE OFFER FROM READY STOCKS.

"NAGASE" DIESEL OIL ENGINES 4 H. H. & 6 H.P.
RED VULCANISED FIBRE SHEETS & RODS.
RESIN BONDED LAMINATED SHEETS & RODS.
LUCAS GIRDER PATTERN ADJUSTABLE SPANNERS.
TAILOR'S SHEARS.
GENERAL ENGINEERING TOOLS.

TO LET

★ ★ ★

WHERE TO BUY ?

ELECTRICAL ACCESSORIES Etc.

The Crompton Engineering Coy (Madras) Ltd.,
2nd Line Beach, Madras-1.

The General Electric Coy of India Ltd.,
Mount Road, Madras-2,

Associated Electrical Industries (India) Ltd.,
1st Line Beach, Madras-1.

Messrs. M. T. Rajen & Co.,
195, N. S. C. Bose Road, Madras 1.

Madras Electricals Ltd.,
Rattan Bazaar, Madras.

Fomra Brothers,
392, Mint Street, Madras 3.

Modi & Modi
11, Lingha Chetty Street, Madras 1.

Viswanathan & Co.,
103-A, Godown Street, Madras 1.

Seeyansee & Co.,
55, Anderson Street, Madras 1.

The Electrical & General Supply Co.,
170, Broadway, Madras 1.

T. G. Pathy & Co.,
230, Govindappa Naick St., Madras 1.

ELECTRICAL INSTALLATIONS UNDERTAKEN :—

Associated Electrical Industries (India) Ltd.,
1st Line Beach, Madras-1.

Madras Electricals Ltd ,
Rattan Bazaar, Madras.

The General Electric Coy of India Ltd.,
Mount Road. Madras-2.

The Crompton Engineering Co., (Madras) Ltd.,
Second Line Beach, Madras 1.

Sethuram Thyagarajan & Co.,
Angappa Naicken Street, Madras 1.

Viswanathan & Co.,
103-A, Godown Street, Madras 1.

Durai Brothers,
1/11, Umpherson Street,
G. T. Madras.

CONSULTANT ENGINEERS
I.S. Rao, Bsc (Eng) A.M.I.E.,
25-A, Thambu Chetty Street, Madras 1.

KASSELS, ANAND & LUCKY FANS
Murugappa Agencies Ltd.,
106, Armenian Street, Madras 1.

PHOENIX FANS
R.M.S. & Co., Ltd.,
16, Broadway, Madras 1.

EMCO FANS
M/s. Crompton Engineering Co.,
(Madras). Ltd.,
Second Line Beach, Madras 1.

I.E.W. FANS
The India Electric Works Ltd.,
19/29, Mount Road, Madras 2.

M. E. M. STARTERS AND SWITCHES
Seeyansee & Co.,
55, Anderson Street, Madras 1.
Madras Electricals Ltd.,
55/57, Rattan Bazaar, Madras 1.
M. T. Rajen & Co.,
195, N. S. C. Bose Road, Madras 1.
R. M. S. & CO., LTD.
16, Broadway, Madras 1.

FERRANTI METERS & CALLENDER CABLES ETC,
B. I. C. C. Ltd.,
37, Second Line Beach, Madras 1.

GANZ METERS, BILL SWITCHES & P.V.C. CABLES, ETC.
Messrs, I.A.E.C. Ltd.,
Dinroze Estate,
2-17 G, Mount Road, Madras 2.

C.G.S. METERS
Havells' Electrical (Sales) Corporation
43,Lingha Chetty Street, G.T., Madras 1.

JAPANESE CABLES & ACCESSORIES
Garlick & Co., Ltd.,
26, Errabalu Chetty Street, Madras 1.

PARAMITE CABLES
The Indian Cable Co., Ltd.,
National Bank of India Buildings,
North Beach Road, Madras 1.

CABLES, CROMPTON MOTORS, CEILING & TABLE FANS, OIL ENGINES M/s. Elite Traders,
16, Broadway, Madras 1.

ZENITH & FERGUSON RADIOS
Universal Agencies,
3-18, Mount Road, Madras 2.

RADIOS & REFRIGERATORS ETC.
M/s. Mohamed Ebrahim & Co.,
Victory House,
Mount Road, Madras 2.

ELECTRIC MOTORS & PUMPSETS ETC.
Madras Engineering Agencies Ltd,
11, Lingha Chetty Street, Madras 1.
The Nellikuppam Industries Ltd.,
337, Thambu Chetty Street, Madras 1.
T. R. R. Swami & Co. Ltd.,
337, Thambu Chetty Street, Madras 1.

AUTOMATIC PUMPSETS (Goulds, Aqua Flo & Hobby)
General Machine Tools Corpn.,
158, Broadway, Madras 1.

SRI PUMPS
Nellikuppam Industries Ltd.,
337, Thambu Chetty Street, Madras 1.

SHIVAJI PUMPS
The British & Eastern Engineering Co.,
16, General Patters Road, Madras 2.

JAYEMS PUMPS
Jayems Engineering Co.,
Lingha Chetty Street, Madras 1.

SIGMA PUMPS
William Jacks & Co., Ltd.,
First Line Beach, Madras 1.

CHANDRA PUMPS
Sugar Cane Crushers etc.
Messrs. The Chandra Foundries Ltd.,
55, Basin Brigde Road, Washermanpet,
Madras.

"O.K." PUMPS & FLOUR MILLS
M/s. East Asiatic Co., (India), Ltd.,
First Line Beach, Madras 1.

KHOSLA PUMPS, (Flour Mills)
Auto-Garage and Workshop Machines—
K. G. Khosla & Co.
1, Original Road, NEW DELHI.
Resident Representative:—Mr. D. SESHADRI,
15, North Mada St.,
Mylapore, Madras 4.

P. S. G. PUMPS
Gordon Woodroffe & Co., (Madras) Ltd.,
North Beach Road, Madras 1.

D. P. F. PUMPS, GOULDS PUMP
Higgs' Motor, Alternator, Generator, etc.
M/s. Batliboi & Co.,
3/153, Broadway, Madras 1.
Fairbanks Morse automatic deepwell and shallow well pumps.
I. A. E. C. (Madras) Ltd., Dinroze Estate,
2/17-G, Mount Road, Madras 2.

PETTER OIL ENGINES
Parry & Co., Ltd.,
Dare House, Madras 1.
Modern Electric Co.,
Lingha Chetty Street, Madras 1.
Shanker Trading Co.,
Lingha Chetty Street, Madras 1.
National Engineering Co.,
N.S.C. Bose Road, Madras 1.

M. W. M. (German), LORENZ and SKODA (Czechoslovakia), YANMAR (Japanese) Engines, Wolf Portable Tools, B. Elliot & Co.'s Machine Tools & Engineering Equipment, Rockweld Electrodes & Welding Plants Etc.
M/s. Rallis India Ltd.
320, Linghi Chetty St..
G. T. Madras-1.

NATIONAL OIL ENGINES
Best & Co., Ltd.,
First Line Beach, Madras 1.

CROSSLEY OIL ENGINES, SPIRAX PRODUCTS, HOWDEN JOHNSON BOILERS Etc.
M/s. Binny & Co., (Madras) Ltd.,
Armenian Street, Madras 1.

DEVILLE OIL ENGINES.
M/s. Indo-Lanka Traders,
38, Lingha Chetty Street, Madras 1.

OIL ENGINES (General)
Asiatic Agencies,
198, Govindappa Naick Street, Madras 1.

COOPER OIL ENGINES
Marshall Sons & Co., (India) Ltd.,
Second Line Beach, Madras 1.

FARMANN ENGINES
The Indian Engineering & Trading Co.,
31, Wallers Road, Madras 2.

VENDEUVRE, ASAA OIL ENGINES S.M.C. Flour Mills
M/s. Standard Machinery Co., Ltd.,
33, Lingha Chetty Street, Madras 1.

OIL ENGINES (General)
Bharat Overseas Trading Corporation,
30, Thambu Chetty Street, Madras 1.

OIL ENGINES
International Agencies,
Angappa Naick Street, Madras-1.

OIL ENGINES & DOMESTIC AUTOMATIC PUMPSETS
G. Janshi & Co.,
163, Mount Road, Madras 2.

BOSCH' FUEL INJECTION EQUIPMENT
for Industrial and Automotive Diesels
The Indian Engineering & Trading Co.,
31, Wallers Road, Madras 2.

TIGER DIESEL ENGINES (22, 10 & 6 H. P.)
Mercedes—Benz Diesel Generating sets of various Capacity.

DUETZ DIESEL ENGINES & ALTERNATORS, ELECTRIC MOTORS
The Hindustan Electric Coy. Ltd.,
53-B, Second Line Beach, Madras 1.

HARDWARE
B. Chandrakant & Co.,
2/156, Broadway, Madras 1.

DIESEL & ELECTRIC DRIVEN PUMPSETS
Rustone Ltd., England.
(Hungarian Make).
Modi & Modi.
11, Lingha Chetty Street, Madras 1.

FIBRE SHEETS & RODS & RUBBER BELTING
(Holland make)
Industrial Stores Trading Co.,
11, McLean Street ,Madras 1

DISINTEGRATORS "VIVEKANANDA" C & N TYPE
Vivekananda Industrial Engineers
Post Box No. 854,
Perambur, Madras-11.

HARDWARE & TOOLS
Pachmerhiwala & Co.,
312, Thambu Chetty Street, Madras 1

RICE MILL SOTRES
Popular Mill Stores,
20-B, Errabalu Chetty St., Madras 1

AUTO-GARAGE & WORKSHOP MACHINES.
Bharat Motors,
Khaleel Mansions, Madras 2

ATLAS BRAND RUBBER BELTINGS & HOSE PIPES
Atlas Trading Company
1/28, Mooker Nallamuthu St.,
Madras-1.

REPAIRS-ELECTRICAL & MECHANICAL
M/s. Greens Electricals,
General Patters' Road, Madras 2

Durai Brothers,
1/11, Umpherson Street, Madras 1.
(Rewinding of Electric Motors A Speciality.)

The Nellikuppam Industries Ltd.,
Kudithangi Village,
Nellikuppam Post (S.A.Dt.)

FOUNDRY WORKS & ENGINEERS

Beehive Foundry Engineering Works,
95, Broadway, Madras.

TRACTORS

OLIVER

M/s. William Jacks Ltd.,
1st Line Beach, Madras 1

FARMALL, McCORMICK, DEERING

(International Harvester & Co.,)
M/s. Volkart Brothers,
115-116 Armenian Street, Madras 1

FERGUSON

M/s. Kamani Engineering Corporation, Ltd.
2, Jones Street, Madras 1

JOHN DEERE, DAVID BROWN

M/s. Larsen & Toubro Ltd.,
120, Armenian Street, Madras 1

MASSEY HARRIS & Continental Crawler Type Tractors, Rotary Hoes, Howard wet Paddy Cultivators

M/s. Rallis India, Ltd.,
Linghi Chetty Street, Madras 1

STEYR

M/s. Jayems Engineering Co.,
Linghi Chetty Street, Madras 1

TURNER

M/s. East Asiatic Co., (India) Ltd.,
1st Line Beach, Madras 1

HANOMAG

M/s. South India Corpn., (Madras), Ltd.,
'Tractor Department,'
Armenian Street, Madras.

FIELD MARSHALL

Marshall Sons & Coy., (India) Ltd.,
2nd Line Beach, Madras 1

LANZ

M/s. Hindustan Electric Coy., Ltd.,
Ballard Estate, Bombay.
Branch :—52-B, Second Line Beach,
Madras 1.

MOFUSSIL MARKETS

MOTORS, PUMPSETS Etc.

M/s. R. M. H. Corporation,
No. 6, West Bouleward Road,
Teppakulam Post, Tiruchirapalli.

The Nellikuppam Industries Ltd.,
53, Kutcherry Road,
Villupuram.

The Nellikuppam Industries Ltd.,
Kudithangi Village,
Nellikuppam Post (S.A.Dt.)

RM. S. & Co., Limited,
Branch at No. 5, West Tower St.,
Mathurai.

FOREIGN MARKETS

Whitetrade Limited,
Denmark House,
70, Maidstone Road,
Rochester-Kent,
England.

BRANDNEW

Lister vertical
'Freedom' Diesel Oil Engine Type FR 1
,, ,, Type FR 2

Ruston Diesel Oil Engine
1 XH (5½ B.H.P. at 550 R.P.M.)

Ruston & Hornsby Diesel Oil Engine
1XHR (8 B.H.P. at 500 R.P.M.)
complete with accessories.
Apply for prices C. I. F.

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