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The Power's Pick.

Over 50,000 read
"Power" every month.

1. SEPTEMBER 1951.

S.	...	2	9	16	23	30
M.	...	3	10	17	24	...
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 — August Quiz.

Due to Italy's antikissing laws which prohibit kissing in public except on Railway platforms.

M/s. East Asiatic Co., (India) Ltd.,
Samuel Finlay Breese Morse.



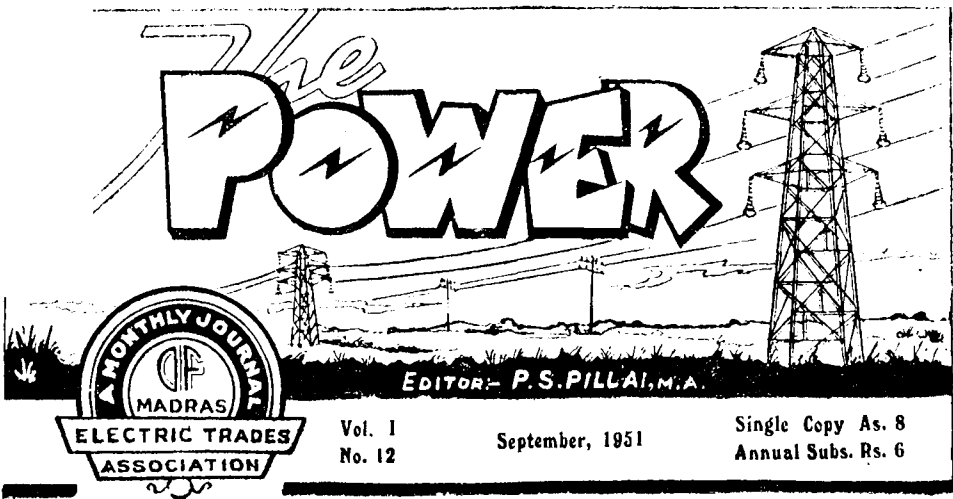
2. QUIZ.

- What is the background of the expression "a stick of Candee"?
- Who are distributors for Hanomag Tractors?
- What is more important to you as an engineer—the size of your pay cheque or the right to have a view in the management?

3. HERE'S HOW...

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- G. L. Modi, B.A., I. S. Rao, B.Sc.(Eng), A.M.I.E.,
- P. S. Pillai, M.A.,

All correspondence etc., should be addressed to the Publisher
296, Lingha Chetty Street,
G. T., MADRAS. 1.

TIT-BITS

- Focus on Females, Business Bunch
- Children's Corner, Power's Puzzle

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7. Here and There	...	...
8. Madras Markets	...	...



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POWER

383

Vol. 1

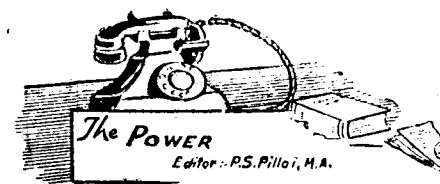
September, 1951

No. 12

"The night is always followed by a dawn; with faith in God and confidence in your strength, you have to march with steady steps and clear vision, and you shall succeed".

DR. RAJENDRA PRASAD

(Broadcast speech on Fourth
Indian Independence Day)



PAUSE AND PROCEED

We have completed one year of existence with this issue of the Power. We pause to reflect on the one which is drawing to a close. During the short span under review, every new issue of the Power had become more popular than the previous one. The million and odd who read the Power today all over the world know what prestige and popularity this magazine has made. With sales came success and success made friends—not enemies.

We remember very well the golden words of the famous poet. More things are wrought by prayer than the world dreams of. We had the prayers, at the start, for the prosperity of the Power from the prince to peasant, minister to menial. We were blessed and patronised by, from Parry to Petty Dealer. We got encouragement from the common man to the business magnate. We devoted our entire efforts to provide our readers up-to-date information in the field of industry, trade and commerce based on our policy and purpose of emphasizing the progress of power—electrical and mechanical. We teach the trader who is today at the cross-roads of Morale and Malpractice, that Honesty brings a firm from an infant to a giant. We put him in the theory and practice of sound business and its principles. We gave publicities to our patron firms and companies who know very well that Advertisement in the dailies is effective but ephemeral and that like the butterfly it lasts only for the day and then lights the fire or feeds the goat; but that Advertisement in a monthly like ours catches the eye, impresses the mind and is thereby thumb-ed over for reference every day during the month or the year and the effect is electrical indeed.

Fate have not been kind to journalists while the Power has withstood the Test of

Time and has been constantly reaching new heights—thanks to the efforts of the office bearers and members of our Electric Trades Association under whose auspices the Power progresses.

The life of an editor is not all made up of the "circus seeing." There is a lot of harassing anxiety associated with a seat in an editorial chair. Lord Roselbury did not particularly exaggerate the usefulness and importance of editors when he happily compared them to the winds in the cave under the command of the King Acolus. He has to crowd a yard of report into a foot of space. He has to gather ideas one yard deep but only one foot long. With all that, good and sweet words are pouring in for and about the Power. All these and many more must mean the march of Power like Time.

We are always conscious of the fact that the press has a vital role to play in the building up of a new order. The liberty of the press has not brought any improvement in the quality of Indian Journalism. The reason is not far to seek; on the one hand the race of respectable and able journalists is vanishing and on the other, the majority of the people like newspapers to be fed principally from the ale-house gossip to the tittle-tattle of the market place. It is a sad sign to associate politics always with journalism. What percentage of newspapers and magazines are there which are devoted to purely religious or scientific or industrial education? Our object is two-fold; one is to educate the public in our line and policy and the other is to attract the attention of the Government for redressing grievances in the field of power, trade and industry. With this object in view we have far improved our efficiency and level in handling the readers' desires by introducing children's corner, events about electricity, Females Forum etc., in order to benefit the

young and the old, the male and the female, the layman and the technician; and last but not least Madras Markets for the use and advantage of the trader and consumer. We have our own plans and policies to cater in still greater measure to the knowledge and efficiency of all our readers, home and abroad, through the pages of the power which is in fact the first and foremost of its kind in our land.

This is an **Electrical Age**. You have to **press the button** to put Electricity in Action, lamp and lighting, heating and cooking, watering and washing, radio and refrigerator, factory and farm, mining and medicine, traction and telegraphy and above all television and its system. Today the progress and prosperity of a nation depends more on its industrial growth which is accelerated by the progress of power both electrical and mechanical. The generation, transmission and application of power is well-nigh brought out in the pages of the Power. The many and varied ways in which power is employed in Home and Hearth, Farm and Field are brought out in simple style with illuminating illustrations in the pages of our Journal. In an agricultural country like ours where today Food for Thought is Thought for Food, we play a prominent part through our Journal in educating the public in mechanised labour and implements without which the attainment of self-sufficiency in food is impossible. Besides these, you have, in our pages, something of everything—personalities from the saint to the scientist, books to brochures, literature to sports, here to there concluding with the Thought for the month. What else, we wonder, do you expect from a high class Journal like ours?

Dear Reader! No society can be complete without great individuals as well as respectable Journalism. Remember that

the Power is for the people. People need the Power for high thinking and better living. And we daresay that the pride of the Power lies in its performance in future as in the past.

PROJECTS & PROGRESS

"These projects would bring water to parched lands and power to industries, light to the dark cottages and prosperity to the people of our country and the natural handicaps from which our agriculture suffers would have been removed" said Dr. Rajendra Prasad, the President, in his broadcast message to the nation on the eve of the Fourth Indian Independence Day.

The **Manimuthar Project** in Tirunelveli District (S. India) is one which will serve the sentiments expressed by the President. The river Manimuthar is the first tributary to join the main Tambraparni river in the plains. The project is mainly intended to safeguard the existing irrigation under the Tambraparni system as a whole. Tambraparni is served by 8 anicuts of which the first 7 were works of antiquity. The 8th and last anicut at Srivaikuntam is of comparatively modern origin and was completed in 1871. High hopes were entertained about this scheme but were falsified in the sequel. To tide the difficulties which arose, several recommendations were made but not followed. Thanks to the efforts of the then chief engineer for Electricity, Madras, Colonel Howard, a higher and lower dam across the Tambraparni as a pure Hydro-Electric Project were completed in 1944. The Papanasam Reservoir could not get full supply due to bad monsoons. The release from the Papanasam Dam for irrigational needs were inadequate. The result was diversions, dissatisfaction among ryots. To remedy and wipe off this deficit in supply from Tambraparni ayacuts, the investigation and sanction of the Manimuthar

Reservoir Scheme arose. The investigation of this scheme was begun in 1945 and report was submitted in 1946. After slight modifications, the Scheme took shape. It was to construct a Dam across the Manimuthar estimated to cost about Rs. 228.5 lakhs to give the necessary additional supply to 62,400 acres of wet lands under the six anicuts below its infall with a new channel of about 18 miles long across Ambasamudram Taluk at a cost of about Rs. 62 lakhs to take off from the reservoir on the right side. Inclusive of all other charges, direct and indirect, the total cost of the scheme is estimated at Rs. 372 lakhs. The height of the Dam is to be 132 feet in the non-overflow section and 118 feet in the spill-way portion. The storage in the Reservoir is up to 82 feet from the sill-level. The new channel will have its head sluice at the 82nd feet in the reservoir. The proposed total ayacut of the canal is 20,000 acres of wet lands under 321 rain fed tanks in the 5 taluks of Ambasamudram, Nanguneri, Tirunelveli, Tiruchendur and Srivaikuntam. The average annual discharge in Manimuthar at the dam site available for impounding is 6690 M. Cft. The expenses of the dam have now been reduced by nearly a crore of rupees. The Madras Government has floated the Special Manimuthar Loan of Rs. 100 lakhs which was oversubscribed by the Tirunelveli Public to the tune of Rs. 128 lakhs. We trust the sorry spectacle of the poor agriculturist thirsting for water will be drawn a curtain over it soon.

★ ★ ★

FROM BUSINESS BUNCH

The importance of good **Correspondence** should not be lost sight of by a progressive businessman. It is not easy to write a

good business letter: the art of writing such a letter—clear, concise and business-like—is an accomplishment of which any one may justly be proud. The well-written business letter is in itself a very effective advertisement of the firm from which it is issued—an advertisement showing a good return. The badly typed, misspelled, ungrammatical, badly com-

posed communication on the other hand, is such as to give the impression of careless and unsatisfactory methods of business and its recipient will be chary of trusting its sender with orders of any great importance. The important requisites of a letter are (i) clearness, (ii) brevity, (iii) neatness, (iv) accuracy and (v) commercial language.



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EX-EXPECTED CONSIGNMENTS

Special Articles

THE DIESEL ENGINE—ITS STORY

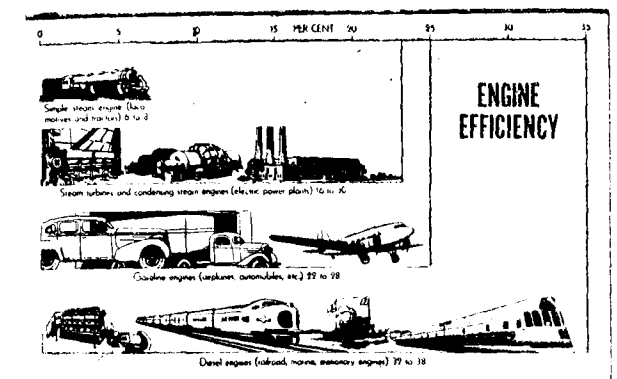
(from *Power's Punch*)

The public, the press and the police have long ago ceased to be interested in the fate of Dr. Diesel who mysteriously disappeared in 1913. However the present performance, dramatic and dazzling, of the Diesel engine in its important part in railroad, railway, marine and power plant development, makes the story back of the early work on this engine again of interest.

Rudolph Diesel was born in 1858 of German parents living in Paris. He was put to schooling in Paris until 1870 when the war between Germany and France forced his family to move to England. Later he went to the Munich Technical College, where he was graduated as an engineer at the age of twenty one. At college, hearing his professor von Linde's description of the low efficiency of the steam engine, he resolved to develop a better engine. He built the first engine in 1892; but the first explosion, on starting, wrecked the engine. The experiment did prove, however, that the compression ignition engine would work. By 1897 he had constructed the first successful Diesel engine. It attracted world wide attention. Diesel made a fortune, was honoured and acclaimed.

Dr. Diesel boarded the Cross-Channel steamer, Dresden, at Antwerp, on September 29, 1913, bound for London. When the Dresden docked the next morning, Dr. Diesel was missing. Not until recently

has any light been cast on the mystery. It has now been revealed that his fortune earned from his engine had been wiped out, he had discussed methods of suicide with his son, who mentioned leaping from a ship on the seas as his idea, was the best method. This evidence of suicide, while circumstantial, was the most conclusive yet presented. The past was his death but the future is his engine which use and importance were assured.



Diesels are the most efficient of all engines

Let us now enter into brief description of the salient points and use of this modern power. The Diesel is the most efficient type of engine built today. It converts several times as much, of the energy in a fuel into work as does the ordinary steam engine. It is better than gasoline automobile or airplane engines. An engine is a machine for converting stored heat units in the fuel in a form which can be used to do man's backbreaking tasks. The more of these heat units converted into work, the higher the efficiency and high efficiency means low fuel consumption.

The Diesel engine, unlike the gasoline engine, does not have a carburetor nor spark plugs. Instead, it has a fuel injector which has the function of reducing the fuel to a spray and forcing it into the cylinder against the great pressure of the air. It

works by internal combustion, that is, by turning fuel inside a cylinder. The gases generated by this combustion drive a piston in the cylinder, thus converting heat into mechanical energy. Burning requires air, so air as well as fuel is forced into the cylinder. This air is compressed before the fuel is ignited. The higher the compression the more efficient is the engine. The Diesel engine increases efficiency by raising the initial temperature before ignition to 1000 Fahrenheit—the temperature of red hot iron.

Diesel engines are constructed to operate in 4-stroke or 2-stroke cycle. What happens inside the cylinder of a 4-stroke Diesel engine? The piston head, a kind of plug, is free to move up and down in the cylinder. The piston is a swiveled rod connecting the head with a crank in the drive shaft, which turns as the piston moves. The first stroke is the intake of fresh air. With the inlet valve open, the piston moving downward (away from the cylinder head) pumps air into the cylinder. As the piston passes the bottom of its stroke, the inlet valve closes. The second stroke is the compression. The piston moving up compresses the air to 500 to 600 pounds per square inch, thereby raising its temperature to about 1000°F. The third is the power stroke. As the piston reaches the top of its second stroke, the fuel injector commences to spray oil into the hot air. It starts to burn at once. The pressure raises to 800 to 850 pounds per square inch, and the piston is forced down. The fourth is the exhaust stroke. The exhaust valve opens, and the piston, moving up, forces the burned gases out of the cylinder to make way for a new charge of fresh air. Thus in the 4-cycle engine every fourth stroke of the piston is a power stroke, whereas in the 2 cycle engine, every second stroke is a power stroke. But

the same four operations still have to be performed in both the types of engines.

The heart of the Diesel engine is the fuel injection system which involves important and technical problems. Most Diesel engines built to-day use a pump to inject the fuel. Solid injection is the term used. There are many types of pumps designed for solid injection. They force the oil into the cylinder at the tremendous pressure of from 3000 to 20,000 pounds per square inch. In the other injection system, viz., the unit injection system, there is a small pump for each cylinder, operated by a mechanism similar to that which operates the valves. A pump and spray nozzle for each cylinder are in one piece and operate.

Diesel engines have been run on various types of fuels—powdered coal, tar, vegetable oils, animal fats and petroleum oils. The most satisfactory fuel is the petroleum fuel oil, held to specifications, fluid enough, clean with proper ignition properties, cheap in price.

Spectacular applications of Diesel power are seen today. Diesel freight locomotives, pulling heavier trains on long hauls in many hours less time and with low operating costs than ever before possible with any type of locomotive, are now in service on leading railroads. An automobile owner would feel quite at home in the cab of a Diesel locomotive. In practically all Diesel locomotives, the Diesel engine drives powerful electric generators, which generate electric current giving great pulling power, to start and maximum speeds. To the railroads the Diesel has meant lower operating costs, high fuel savings and less time in the round house. In the motor vehicle field, the 2 cycle Diesel engine has been widely applied to buses and trucks. For marine

power, the Diesel cannot be surpassed. It has been used from small pleasure craft to large freighters.

After all is said and done, remember that the application of the Diesel engine is in its infancy. It is a sizable industry and growing rapidly. The light-weight Diesels of the present can be used in hundreds of places never before practical. The Diesel is powering the machinery and transportation of the world of tomorrow. In short, a new industry has been born—Diesel the modern power and the sign of progress.



FOCUS ON FEMALES

The Lonely Rich

A friend of mine—a girl brought up in a poor home who has recently married into a rich family—said such a revealing thing to me the other day: "It is only when you are rich that you really appreciate the things money cannot buy."

Her old friends know that now she can afford to buy almost anything she wants like freezers and refrigerators etc. No kind friend comes in to "do" for her when she is ill or brings her fresh vegetables and fruits from her garden or gives her those little tokens of friendship and true kindness which are so prevalent among the less

fortunate. She tells me that she has never felt so lonely.

School and college life for girls mean the training for life of the whole human being; and time and attention should then be equally devoted to development of body and mind. In the 19th century the physical training of girls was monopolised by dancing mistress and drill sergeants. There are even today schools and colleges which attempt to counteract one week's cramming with one hour's gymnastics. 15 or 20 years ago girls in India did not play organised games such as hockey and cricket. The real aim of games and gymnastics is health. Taken in time, they prevent bad habits, they correct bad postures and are conducive to correct movement. Educators should grasp the idea that the human being, morally, mentally and bodily is a unity, not a trinity.

Girls should be taught to understand and calculate the possibilities of their sex. They should be developed the female powers, of course, chiefly but also in proper proportion, the male powers. We must develop in our girls, not only will but love, not only memory but imagination, not only intellect but intuition, not only grace but also strength. All the studies and the whole life of the school and college should aim at developing a harmonious unity. Then the purpose of education is attained.

We want,

"The perfect woman, nobly planned,
To guide, to comfort and command
Power's Pensee."

EVENTS ABOUT ELECTRICITY

An unusual use of electricity has recently been described for the destruc-

tion of mosquitoes. A lamp emitting ultra-violet rays is used to attract them and a fan-driven vacuum apparatus to impound them.

'control' plants, placed away from the light, took 4 weeks to flower.

ELECTRIC FANS

Test Reports

Type-Ceiling Sweep Range 60" to 36"	Watts at F. speed 12 to 100	R.P.M. Range 200-315	Air Displacement in C ft per minute 5500 to 13,500
Type-Table 11" to 16"	10 to 55	1250-1350	2000 to 3000

Daffodiles and Lent Lilies, when placed under the light for 6 hours a night, flowered in 4 days, growing about $\frac{1}{2}$ inch a day. Narcissi flowered in 7 days. The



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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 wide-spread modern applications. All calculations and complicated formulas 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.)

FOR HOME AND HEARTH

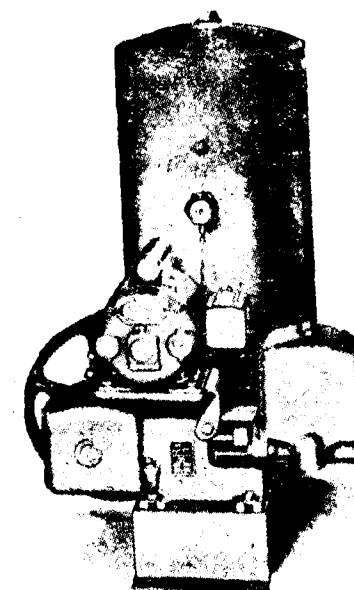
Power Pumps—(Series 2)



Wherever and whatever may be your residence, a house, bungalow, country residence, estate or farm, water supply is exceedingly important. Plenty of cool, clean water at the turn of a tap adds joy and comfort to your home and aids in your domestic uses, assures you of verdant lawns and colourful gardens, serves you to have uninterrupted, controlled production in your light industry. Truly, there are a hundred and one ways to ease your work.

You simply instal **The New Premier Aqua Flo, Shallow well water pump.** Then you need not have to 'lug' water from a well, or prime a pump. You need not go through back-breaking pump calthenies, you conserve physical labour too—eliminating leg work, heavy water buckets and resome arm labour and more time to do ther profitable chores. Your house is

silently supplied with ample pressure-water, fresh and clean, germ-free, oil-free, for kitchen, table, bath, laundry, water heater and lawn. The cost for all the water you need is only a few annas per day—less than the cost of your lighting. **The Premier Aqua Flo** once installed, no attention is necessary for years to come. The water is at your command—constantly on tap.



(Premier Aqua Flo Water System)

PREMIER AQUA FLO

Shallow Well Water Systems

- | | | |
|---|--|---------------|
| 1 | 1/6 H.P. Shallow well-250 G.P.H. | ... MODEL |
| | Reciprocating Shallow well pump complete less Tank | ... AR-1625 |
| | Model AR-1625 Mounted on 20 Gal. Horizontal Tank | ... AR-1625 U |
| | Model AR-1625 with 20 Gal. Vertical Tank | AR-1625-20 |
| | " AR-1625 with 42 Gal. Vertical Tank | AR-1625-42 |
| 2 | 1/4 H.P. SHALLOW WELL 350 G.P.H. | ... MODEL |
| | Reciprocating Shallow Well Pump Complete Less Tank | ... AR-2535 |
| | Model AR-2535 Mounted on 20 Gal. Horizontal Tank | ... AR-2535 U |
| | Model AR-2535 with 20 Gal. Vertical Tank | AR-2535-20 |
| | " AR-2535 with 42 " | AR-2535-42 |
| | " AR-2535 with 82 " | AR-2535-82 |

(13th Page continued)

3 1/3 H.P. SHALLOW WELL—500 G.P.H.	MODEL
Description.	
Reciprocating shallow well pump com- plete less Tank	AR-3350
Model AR 3350 with 20 Gal. Vertical tank.	AR-3350-20
" AR 3350 with 42 Gal. "	AR-3350-42
" AR 3350 with 82 " "	AR-3350-82

These automatic water systems built by **M. s. Premier Water System - Div. U. S. Lite-Ray Company, Ohio U.S.A.** are really superior pumps, silent, economical and dependable designed and built by experts with years of experience.

Get in touch with your nearest **Premier Aqua Flo dealer**, well-known and reputed engineers **M/s. General Machine Tools Corporation, 158, Broadway, Madras-1** and who are the sole distributors, by phone or mail. Have them installed a Premier Aqua Flo straight away. Then you will have certainly water galore!

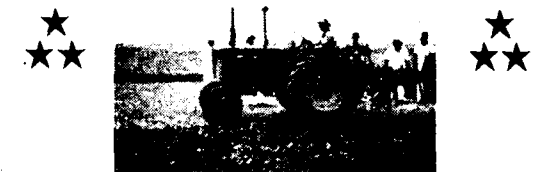
FOR FARM & FIELD—(Series 7)

"Princes and lords may flourish or may fade,
A breath can make them, as a breath has made;
But a bold peasantry, their country's pride,
When once destroyed, can never be supplied—"

Goldsmith.

The world ultimately depends on agriculture. The tiller of the soil is the axle-pin of the revolving world. They only live that till the soil and raise their own food. The rest are parasites and sycophants. The good wife called "Earth" laughs at the foolishness of the men who sit idle, bemoaning their poverty, when there is land to cultivate which will yield the measure of his labour. The first men in the world were a gardener, a ploughman, a grazier. Ever since, the respective branches of Agriculture which they inaugurated have progressed and flourished through the efficacious abilities and initiative of their successors. The time has long since passed when the Indian farmer could afford to ignore what farmers in other parts of the world are doing. Indian

Agriculture is not a separate but integral part of the world's economic system, and it is always deeply affected by financial, industrial and social conditions both at home and abroad.



(The agricultural expert Mr. P. Olsen attached to E.A.C. is demonstrating at Velacheri near Madras, the use of a mounted Turner 3-bar Tool-bar fitted with 15 rigid steel lines with reversible steel points.)

Better farming, better production and better distribution will give the farmer a fairer share, of the national income as a basis of a satisfactory life. Nature has decreed that man must work. In the sweat of thy face shall thou earn bread. The farmer is more independent than his city brother, but he is certainly more dependent upon the conditions set by his physical and social environment. The desire to satisfy himself, the wants of others, pride in his own work, joy in labour, patriotism, community and competitive spirit, religion and the idea of duty all these and many more are the complex set of motives in operation in the life of a farmer.

The prosperity of a nation is in proportion to the value of its production. The principal factor in Agriculture is farm equipment—all produced instruments of productions. The ox, horse, tractor and other implements, buildings, fences, seeds, feeds, and other supplies are classed as equipment. When population increases more rapidly than the farm land and the necessity to get larger amounts of products

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(Mr. C. J. Findalen of E.A.C. driving The Tractor and a 4-furrow, 28" Turner Disc Plough. The Tractor is fitted with steel wheels).

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The 'YEOMAN OF ENGLAND' has wide export markets in Brasil through its

Agents, The East Asiatic Co., Ltd., and Australia has taken a large number of Turner Tractors. The Tractors had successful demonstration in the Clocolan District of the Orange Free State to the great admiration and appreciation of farmers and farm experts. Nearer home, Poona, Calcutta, Madras and Delhi have witnessed, in the presence of interested farmers and Government officials, excellent demonstrations of the Turner Tractors thereby proving the worth and suitability to Indian conditions. You put the Yeoman to work anywhere and at any time of the year in any soil from stiff clay to soft sand. It is always successful and never failing. That is the experience and appreciation of landlords and tenants who are now using the Turner Tractors.

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To produce the food, to protect the good,
Born in England, I work on all land—"

"THE YEOMAN."



(The mobile service unit of E. A. C. carrying spare parts and tools.)



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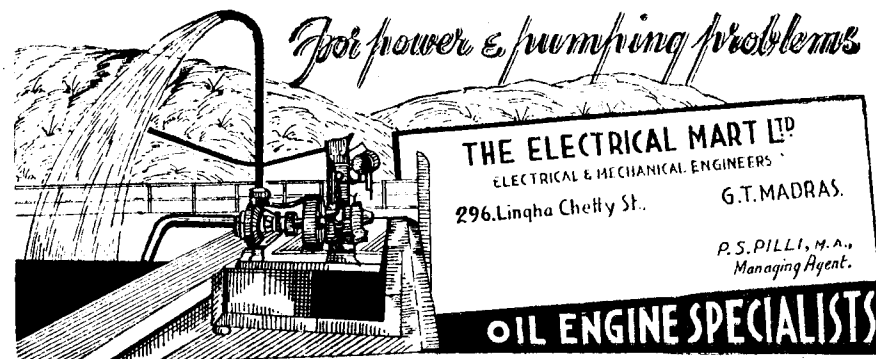
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With the professions so over crowded, more and more of the best brains in the country are embarking on business careers. The expert moves on to the top of his profession, while others have been content to drift. The Power will prove that pride lies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

PRESS NEWS

—B.I.C.C. Ltd.

Barking-Ilford Underground Cable Installation

Considerable progress has been made with the British Electricity Authority's 132 KV underground cable installation between Barking and Ilford. This installation is of particular interest because it is the largest of its kind yet undertaken in this country.

The contract was awarded by the British Electricity Authority to British Insulated Callender's Cables Ltd., and called for the supply and installation of 9,000 route yards of two 3-core 0.6 sq. inch 132 KV Impregnated Pressure cables, associated auxiliary cables and a quantity of 3-core 0.06 sq inch 33 KV Solid-type cable.

When completed, these underground transmission lines will provide a major reinforcement to the existing electrical network in the Ilford, Chigwell, Woodford and Buckhurst Hill districts—the districts which comprise the north east corner of

the L. E. B. area and which have been extensively developed during recent years residential and light industrial areas. The existing electricity supply, apart from about 3,000 KW generated at Ilford, comes from Barking power station over 33 KV feeders, some of these feeders now being operated at 22 KV. The new 132 KV lines will be connected at the Barking end of the installation to the switch-house now being built in conjunction with the power station extensions at Barking 'C'. The new lines will provide a major outlet of load from Barking and, at the Ilford end of the installation, will be connected to a new substation where the voltage will be stepped down to 33 KV and distributed over 33 KV cable to the surrounding districts.

AROUND THE MARKET

Early August, the Indo-Pakistan tension and uncertainties regarding Korea Peace talks acted as a check to any rapid recovery in the Indian Markets. The pig iron price increase, announced by the Government of India set the pace for recovery but it was not quite smart. Select rubber and coffee shares were at important levels. Conditions in the tanned hides and skin market was disheartening and discouraging. The market in U.K. was disastrous. In the local market prices came down steeply. There was no CIF business in tanned goat and sheep skins. Goods were being consigned to the London auctions to be held in September. The local market for seeds and oils was depressed.

Business remained restricted on the Stock Exchange in the Indian Markets due to the closure of the market for the independence Day Holidays. The continued uncertainties in respect of relationship between India and Pakistan accounted for diffidence, except a few bright spots in the

planting and textile sections. The Government of India new loan for Rs. 50 crores has been issued presumably with two objects (viz.), to absorb the remaining Rs. 40 crores outstanding on the 3% loan 1951-54 and to test the market. Slight improved conditions were seen in the Hides and Skin market. There was a slight improvement in the prices of seed and oil due to the small buying interest by Calcutta operators.

ON INDUSTRIAL FRONT

Though Casein was known to the Egyptians and celluloid was discovered as early as 1865, it would be correct to describe the **plastics industry** as one of the latest achievements of science. Within two decades plastic products have become the basic materials for industrial and constructional purposes. The possibility of its expansion and utilisation has become great. The flexibility of plastics makes them simple and cheaper than metal, wood, stones, ceramics or glass. They are being increasingly required in the manufacture of machine parts, electric gear, automobile and aircraft construction and in addition in a multitude of domestic requirements.

Plastic is defined as any one of a large and varied group of materials, wholly or primarily organised in composition which can be formed into useful shape of the application, singly or together, or heat and pressure. Plastics differ widely in their characteristics; rigid, flexible, light, heavy, tough; brittle, opaque, translucent, transparent. They are coloured black, white, green, blue, red, yellow, silver and every other hue. They fall chiefly into four categories: moulded (or fabricated), laminated, fibrous and liquid. Most familiar to us are the moulded plastics—such articles as fountainpens, radio knobs, automobile steering wheels, etc.

The plastic industry in India has largely developed during the Second World War. Before 1940 there were about a dozen moulding concerns manufacturing celluloids and other articles out of imported moulding powders and semi-fabricated plastic goods. The difficulty of importing moulding powders during the war led to the manufacture of phenolformaldehyde moulding powder by a few concerns within the country. The other types of moulding powders and resins are all imported at present, inclusive of plastic sheets or laminates.

The manufacture of plastic articles comprises four branches (i) compression moulding, (ii) injection moulding, (iii) extrusion and (iv) fabrication. There are about 60 firms in the country engaged in the manufacture of plastic goods under these 4 branches. The production of moulding powders and semi-fabricated goods involves well developed chemical industries for supplying the necessary basic materials, technical personal, organization, equipment and machinery. In the absence of these, we find today the concerned factories restrict their activities to one or two of the above four branches. According to the All-India Plastics Manufacturers Association, the present rated capacity is about 5000 tons per annum.

The Panel of Plastics appointed by the Government of India in 1947 made recommendation for the expansion of this industry. The Tariff Board made enquiry of this industry in 1949 for affording protection and endorsed the opinion of the Plastics Panel and stated that it was in the national interest to grant protection to this industry.

India possesses the resources necessary for the production of raw-materials required for the synthetic plastic industry

and has in addition, an abundance of naturally occurring resins and resin-forming materials. In addition to the protection given to this industry, raw materials like urea-formaldehyde moulding powder, polystyrene, cellulose acetate, cellulose and butyrate are granted favourable import duty by the Government. Indian manufacturers of plastics should keep abreast of technical developments in other countries.

SCANTY INTEREST

The scanty interest taken by the Import control Department of New Delhi, for New-comers in the import trade is really regrettable; because the latest regulation states that Newcomers should produce evidence that they imported goods during two licensing periods between 1944 and 1951 to entitle them for getting an import license.

PLEASURES & PRIVILEGES of THE PEN



Men have many faults, women have only two—there is nothing good they say and nothing right they do. Heaven gave to women the peculiar grace to spin, to weep and cull the human race.

The steepers and soakers in liquor have always clung to the worshipful trinity of the Bible, the Bottle and the Baynot. These are true disciples of Omar Khayyam, the Persian poet, who sings.

"Ah, fill the cup! What boots is to repeat,
How Time is sleeping underneath our feet,
Upborn tomorrow and dead yesterday,
Why fret about them, if today be sweet?"

★ ★ ★

There are people in our time doubting the question of the historicity of Christ, making the love-affairs of Lord Krishna the subject of plentiful speculation, criticising the home-life of Mahomad and ridiculing the gluttony of Buddha—irreligion in abundance.

WHO IS WHO in BUSINESS AND BANKING :— BIRLA, GHANSHYAMDAS

The son of Dr. Raja Baldevdas Birla, Birla was born in 1894. He was a member of the second Indian Legislative Assembly, the President of Indian chamber of Commerce, Calcutta, member Indian Fiscal Commission, delegate Labour Conference in Geneva (1927), member second Round Table Conference (1930), unofficial Adviser to Government of India for Indo-British Trade Negotiations (1936-37) President All-India Harijan Sevak Sangh. As the Managing Director of M.s. Birla Brothers Ltd. (8 Royal Exchange Place, Calcutta) he is connected with various business in the country. Above all he has been responsible for the founding and maintenance of a large number of educational and other public institutions in various parts of the country.

★ ★ ★

DELHI DIARY

(From our correspondent)

Independence Day on August 15, in the capital began with homage paid to the memory of Mahatmaji by all leaders who laid wreaths at the samadhi at Rajghat. The

city was bathed in bright sunshine. The National Flag was unfurled by Prime Minister Nehru in the presence of a huge gathering of more than 2 lakhs. The parade-presented arms, the band played the National Anthem and the artillery fired a 31-gun salute. The vast crowd listened intently to the Prime Minister who spoke for nearly an hour, emphasizing on national unity, universal friendship and good will. The occasion unfolded a new picture and added a significant page to Indian History.

★ ★ ★

The Prime Minister's resignation from the Congress Working Committee did not come as a surprise. Mr. Tandon may have his working Committee with him, but Pandit Nehru has the whole country.

★ ★ ★

Parliament has been busy considering many problems, such as the East Punjab rule, the Estate Duty Bill, company law reform, etc.

★ ★ ★



CHILDREN'S CORNER

Dear Children! Many among you have written to me to tell you something about the Soviet country and how it is administered and governed. You are the citizens

of the future and some of you will guide and rule your country. So I must answer this question in brief though. The rest you will learn when you grow old from press and platform, contact and correspondence.

Old Russia was a monarchy. The Tsar had supreme power. The people had no rights whatsoever. Education was on low level. A revolution took place in 1917. As a result power in Russia passed into the hands of the people. A socialist Government of workers and peasants was established.

The Union Soviet Socialist Republics (U.S.S.R.) is a federal state formed on the basis of a voluntary union of 18 equal Soviet Socialist Republics: the Russians, Ukrainian, Estonian etc. The remaining nationalities of the U.S.S.R. residing within the confines of the Union Republics form their national-state organisations as constituent parts of Union Republics.

This is the state structure of the multinational country. The peoples of the Soviet Union form now into a single friendly and inseparable family and speeded up the economic and cultural progress of the once backward and oppressive peoples.

The Soviet Union is governed by the Stalin Constitution called after its author J. V. Stalin. The highest organ of state power in the U. S. S. R. is the Supreme Soviet of the U. S. S. R. Deputies to the Supreme Soviet are elected by the people. To the Supreme Soviet belongs the exclusive Right of enacting laws which are binding throughout the territory of the country. The supreme Soviets elect Mr. Presidium of the U. S. S. R., forms the Government, the council of Ministers, appoints the Procurator-General of the

U. S. S. R., and elects the Supreme Court of the U. S. S. R. More or less the same principle is adopted for international-state organisations to form their respective Governments. Elections are conducted on the basis of universal, equal and direct suffrage by Secret ballot, the minimum age being 18.

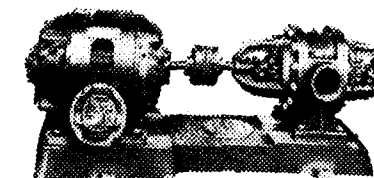
Soviet society is a society of working people-workers, peasants, and working intelligentsia. The Soviet people call their great leader and teacher J. V. Stalin the deputy of all people. The Government of the U. S. S. R. is a workers' and peasants'

Government, near and dear to the people. That is why the Soviet Government and its leaders with Marshall Stalin at the head enjoy the complete confidence and support of the people. Thus genuine democracy-real sovereignty of the people exists in the Soviet Union.

"How beautiful is youth; how bright it gleams
With its illusions, aspirations and dreams
Book of beginnings, story without end
Each maid heroine, each man a friend,

—Longfellow.

Yours sincerely,
Power's Pearls.



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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.)

Indian Engineers Buyers Guide

1951, published by the **Indian Advertising Service, 543, Nehru Nagar, Bangalore 3.** Price Rs. 4 a copy.

This is an excellent and useful guide in which the names of manufactures and suppliers of machine tools, small tools and other plant, equipment and materials for use in Engineering factories and allied industries are listed alphabetically. The Guide is produced to fill up every pocket, literally and metaphorically. It is of 304 pages in all with an excellent get up and is arranged to contain the names of leading Indian firms and manufactures in all items of electrical and mechanical trade, useful and technical data and tables, a diary for the year 1951, and full names and postal addresses of important firms all over India in the line.

The Buyers Guide saves you time; it saves you money as well. Should you require any further information besides found in the Guide, you have simply to contact the Enquiries Department, The Indian Engineers Buyers Guide.

Remember your Buyer's Guide-keep it handy-use it often.

Practical Electricity and House-wiring—By H. P. Richter, Price \$ 2.00.

A practical book of 287 pages, with 250 illustrations, size 5" x 7½" cloth bound contains instructions covering in detail every branch of electrical work. Electricity and how it is measured, codes, principles of circuits, 2 and 3-wire systems, polarising and grounding, fuses, circuit breakers and circuits, wiring methods, motor wiring, A.C. and D.C. systems, single phase and Three-phase are all the items covered clearly in the book.

Drake's House-holders' Cyclopedia—By H. P. Manly, Price \$ 5.00 a copy.

This is one of the latest additions to the Drake's series and is of 650 pages, including more than 1000 pictures made for this book, cloth bound, price \$ 5.

This is a "how to do it" book giving simple, step-by-step instructions on how best to construct, install, repair and adjust everything in and around the house. The book is a cyclopedia, with 70 sections relating to all principal subjects arranged in alphabetical order for quick reference. Pictures show, for example, inner workings of mechanical and electrical parts; they show how they look when taken apart. Each section answers all questions on the subject treated.

This is a book worth possessing by any one who wants to learn the Art of Right Living.

Ask and get it from its sole distributors, **M s. K. L. Kannappa Mudaliar, 30, General Patters Road, Madras-2**

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Vertical, Pelapone Ricardo, Made in U.K.
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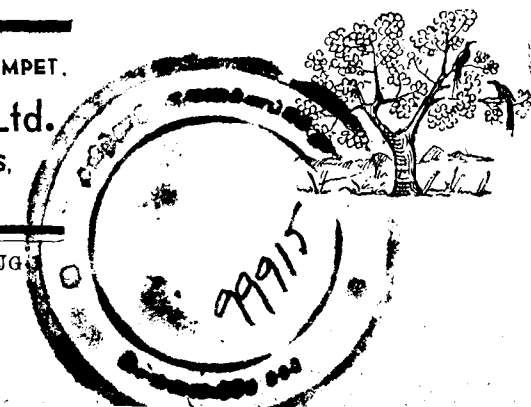
Days of Crude Advertising are gone. A new era in this Art has dawned. Like Literature, Advertisement reflects the character and characteristic of a concern, nay even of a nation.

Advertising in the Daily is effective but ephemeral: like the butterfly it lasts only for the day and then lights a fire or feeds a goat. The Advertisement in a Monthly like the Power will keep fresh by tens of thousands of people who thumb over every day for the whole month or the year.

There is a Way—to lay out your Advertisement and Publicity, to select the media, to plan the campaign and at last to check up and record results. Therefore play your part through Powers' Publicities whose watchwords are:

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1. To give facilities in the trade to the members.
 2. To make their ideas and want felt through the Association.
 3. To solve any difficulties in the trade which are met with by members.
 4. To give assistance to members either in legal or Government or any other matters.
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Questions are asked but they are not answered. But answer the following, yes or no, and figure your own efficiency.

What's Your Answer?	Answer
Do you know how to test a coy's standing?	
Do you know the Art of Foreign correspondence.	



News and Notes

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

PERSONALITIES



A maker of the O. E. D. (the Oxford English Dictionary) Sir William Graige lives in a pleasant, low lying house set on the edge of the Chilterns (Oxford) with a fine view over the plain to the west. It is a warm friendly house. Sir William, a remarkably youthful and active octogenarian, still does a full day's work on his various literary and active lexicographical projects—no such thing as a retired lexicographer. Dictionaries are relentless and always unsatisfied task masters, for there is no end to the development of a living language; new words, new meanings, fresh quotations bearing upon the history and usage of particular words are continually coming to notice and usage. The pile of neatly tied bundles of dictionary 'slips' in Sir William's study is ever growing.

By birth and up-bringing Sir William was no conventional scholar. His youthful experience of life in his industrial home city of Dundee was of much use in his work on the Dictionary. It was by accident that he was led into lexicography in 1897. He was appointed a third editor in additon to Murray and Bradley in the preparation of the Dictionary by the University Press (Oxford). He began independent editing in 1901.

One of Sir William's great assets as a lexicographer was his early enthusiasm for wide knowledge of the Scandinavian languages as well as the classics. More than a third of his published works are connected with Scandinavian or Icelandic literature; and on his 80th birth day (13th August 1947) he was presented by the Icelandic Government with two handsome volumes of Rimur of the 17th century specially edited and dedicated to himself in recognition of his services to Icelandic scholarship. He is now devoting much of his time to the preparation of Specimens of Icelandic Rimur—a type of literature covering a period of five centuries. He also casts his wide net over the language and literature of America and Scotland.

Sir William does not conceal that the bulk of the work was a matter of hard routine slogging order, dates, etymology with a simplicity of organization. It is indeed a matter of doubt whether any great work of modern time has been done with more modest equipment than the Oxford Dictionary. If the equipment was modest, so were its users. They sought no publicity, they worked day by day, year by year, as a team engaged on a great work, but not concerned to blazon their own name and fame. Their sufficient reward was the knowledge of work well done.

MATTERS**Inside India**

The fourth and last session of Indian Parliament before the General Elections was opened at New Delhi by President Dr. Prasad. The President has touched on a large number of topics, and has emphasized about the desire of the Government of India to promote peace and goodwill in the world. About 24 official bills are on the agenda, the important among them being Press Laws Bill, the Industrial Development Bill and the Hindu Code Bill. Any attempt to push through the last cannot but be extremely unsatisfactory.

The Reserve Bank's survey of the progress of Indian Banks in 1950 reveals interesting developments. The main features are (1) bank deposits increased by Rs 28 crores, (2) a slight decline in the number of bank offices in the country (3) cooperative banks have forged ahead of the development of a wider use of bills of exchange. The widening of banking facilities to Trade and commerce should be taken cognizance of by the Reserve Bank.

The Action Committee of the All India Railway men's Federation has suspended for two months their decision to go on strike on 27th August. This is in response to Government call and is a welcome sign.

The general elections in the country would begin on or about January 3, and end by January 24 1952 except in Himachal Pradesh, in parts of Kangra district in Punjab and in high altitude regions of Uttar Pradesh.

Nearer home, the death of Mrs. Rukmini Lakshmipathi, ex Minister to the Government of Madras, at the age of 60, was received with regret. After graduating in Madras, she took a leading part in the advancement of the cause of women in various capacities. Her interest in educational matters and in local administration could be judged from her long association with Madras University and Madras Corporation. May her soul rest in peace.

H. E. the Governor of Madras addressed the third and last session of the Madras Legislature before the general elections.

Three new taxation measures were announced to finance the State 5-year development plan; a levy of surcharge of agriculturists paying an assessment of over Rs. 150, enhancement of land revenue on lands producing commercial crops and levy of betterment fees on lands benefitted by the irrigation works. Some may be deferred.

Inside Europe

The 7th World Scout Jamboree was held in Bad Ische (Upper Austria). Nearly 20,000 Boy Scouts from 37 nations with their bright uniforms, nation by nation, each headed by its band took part in the past the mound on the rallying ground amid the glittering glaciers and snow-covered peaks of the Austrian lake district.

Inside America

The U. S. Commerce Department had signed contracts with American firms to develop industry in India and Pakistan under President Truman's Point-Four Plan of assistance to under-developed areas. The development of small-scale industries, the advancement of indigenous foundry and the production in the fields of cellulose and paper are the main projects of concentration.

The Ford Foundation Fund of 500 million dollars was set up by Edsel Ford, the son of Henry Ford, the motor magnate, in 1936. The object of the fund was to remove poverty and injustice, to spread education and thus make the world a peaceful place. The Foundation has now allotted 5 million dollars to India and Pakistan. To decide the concrete plan for implementation Mr. Paul G. Hoffman, a director of the Ford Foundation, has come to India on this mission.

The text of the final conference draft of the Japanese Peace Treaty Conference with an inaugural speech from the President of the United States in San Francisco commencing on September 4 has been released by the U. S. State Department. Notable among the clauses are (i) the Allied Powers recognise the full sovereignty of the Japanese people over Japan and its territorial waters (ii) the return of the Japanese troops to their homes

(iii) Japan should make necessary reparations.

Insid Asia And Africa

The talks in Teheran between Mr. Stokes, (Britains Lord Privy Seal and oil negotiator) and the Persian Government, were concerned mainly with the liquidation of the Anglo-Iranian Oil Company and the creation of a selling agency who should act as the successor to the Anglo-Iranian Company. Many formulaes have been examined but agreement has eluded the negotiators.

The Anglo-Egyptian Treaty of 1936 is almost certain to be abrogated by Egypt. Attempts are being made by Britain to dissuade Egypt from abrogating the Treaty. Negotiations for a new Anglo-Egyptian Treaty lasted nearly for one year without any solution. A showdown between the two countries might result in the boycott of the Suez Canal Zone by Egypt, causing seriousness in the situation.

The man-to-man Korean armistice talks were going on. Each party was accusing the other of scheming to extend the war.

SPORTS

D. B. Carr of Oxford University has been appointed vice-captain (to assist N.D. Howard) of the M.C.C. Team which is to our India, Pakistan and Ceylon during the coming winter.

India's captain is now Hazare to lead the Indian Team. He richly deserves the honour. Happily both Hazare and Merchant (former captain) are good sportsmen and this election of Hazare by the Board could not mar the harmony between them.

England won the fifth and final test against South Africa at Kennington Oval

and took the series by 3 matches to one with one drawn. It had been a thrilling finish to a keenly contested and evenly fought out battle.

The Madras State Table Tennis championship was fortunate in the participation of K. Jayant, India's No. 1.

The Bombay Government had collected Rs. 1,39,94,000 in 1950-51 by way of taxes on races.

In a few lines

The Rajpramukh of Mysore had a tour to a number of pilgrim centres in Madras.

Four top-ranking officers of the Ministry of Commerce and Industry, Government of India, dealing with imports and exports have been suspended on charge of bribery and corruption.

The Congress alone had the strength and the men needed to run the Government—so said Mr. Mohanlal Gantam, Congress Secretary.

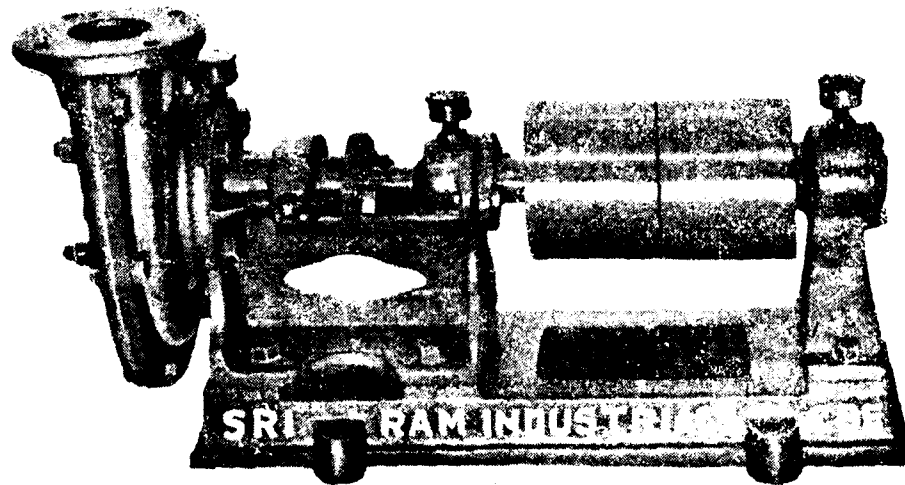
The Indian Institute of Technology was opened by Maulana Abul Kalam Asad in Kharagpur (West Bengal) to provide facilities for training high-grade engineers and technologists.

Serve the people without fear or favour and do at least one good turn daily—was the advice given during the celebration of Police courtesy week celebrated in the Madras State.



ஸ்ரீ பம்புகள்

நீடித்த
உழைப்பு
குறைந்த
செலவு
நிறைய
விளைபல்



STOCKISTS IN MADRAS
G. JANSI & CO., ELECTRICAL MART LTD.,
TEE YEN BEE MILL STORES, Madras - Hyderabad-Dn.,
Distributors:—**NELLIKUPPAM INDUSTRIES LIMITED.**

Workshop & Service Station WE UNDERTAKE

- | | |
|--|--|
| * Machine shop work. | * Electrical Winding and Repairs. |
| * Welding. | * Battery Charging, and Servicing |
| * Fabrication of Engine & Pump
set base frames. | * Servicing, Overhaul, Repair &
Maintenance of oil Engines. |
| * Supply of Oil Engine Spares. | * Fabrication of steel work welded. |
| * Manufacture & Supply of oil
tanks etc. | * Manufacture & supply of pulleys,
shafts, bolts and nuts. |

UNDER EXPERT TECHNICAL STAFF
CHARGES COMPETITIVE
ENQUIRIES SOLICITED.

The British & Eastern Engineering Co.,
16, GENERAL PATTERS ROAD,
MADRAS-2.

Tel: BRITEAST

Tel: 84229 (3 Lines).

POWER,

31

SEPTEMBER, 1951

and neck tumors etc. were performed, Susruta was recognised as the father of Indian Surgery.

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.)

Biggest

The biggest trade union in the world is the Trade Union of United Automobile workers with its 1,125,000 members.

Ladies to Look

Painless child birth due to magnetism is reported from the little village of Clairac in Central France. A handkerchief was magnetised and placed on the mother's abdomen when labour pains started. A few hours later the baby arrived—no pangs of birth to the mother.

The Teacher & The Taught

In Slough, England, Joseph Davies, 26, paid a nostalgic visit to his old school teacher, told her proudly of his success in life, then departed with her hand-bag.

2551 years Ago

Surgery in India, existed, 2551 years ago, may be in a crude and cruel form. Amputations, operations for cataract

Cash and Carry

In Windsor, Ontario, a subtle thief broke into Vacationer Arnold Mc Carther's house, then called a furniture dealer, who obligingly drove up with a van, made an estimate, paid on the spot and carted away all the furniture.

Gravity

Sita whispered to her friend that the only thing holding up the saree she wears is gravity.

"Gravity?" questioned the friend, "Yes" she replied, "The gravity of what would happen if it falls down—".

Formula for Failure

Try to please everybody.

Thought for the Month

Behold fond Man!
See here thy pictured life,
Pass some few years
Thy flowering spring
Thy summer's ardent strength
Thy sober autumn fading into age,
And pale concluding winter comes at last
And shuts the scene—Thomson.



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 enquires and 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 inquiries on all items not listed here. The management is at your service at all times.

ELECTRICALS

I. ACCESSORIES

	Rate,	per doz.
SWITCHES	Rs. a. p.	
Bakelite English, S.P. 5 amps...	17 8 0	"
" Indian " " " "	11 0 0	"
Porcelain base English " " "	18 0 0	"
HOLDERS		
Bakelite Pendant English ...	8 0 0	"
" " " " " "	12 0 0	"
" " " " " "	12 0 0	"
Batten Holders ...	13 4 0	"
P.B. Holder's English ...	16 4 0	"
" " " " " "	18 0 0	"
" " " " " "	16 8 0	"
Batten ...	16 8 0	"
Adaptor (Bak) ...	7 8 0	"

CEILING ROSES (2 plate Bak)

English	8 0 0	"
Indian	5 8 0	"
Cutouts (English)	8 4 0	"

WALL PLUGS

Bak, 5 amps 2 pin complete (Eng.)	14 0 0	"
" 3 pin " "	27 0 0	"

SHADES & REFLECTORS

Enamel Iron Shades 8"	10 0 0	"
" " " 10"	15 0 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 ...	61 13 0	"
"	" 7/20 ...	97 12 0	"
"	Twin core 1/18 ...	71 2 0	"
"	" 3/20 ...	120 11 0	"
"	" 7/20 ...	190 7 0	"
W. Proof	Single Core 1/18 ...	40 3 0	"
"	" 3/20 ...	59 12 0	"
"	" 7/20 ...	91 9 0	"
"	Twin Core 1/18 ...	76 13 0	"
"	" 3/20 ...	113 0 0	"
"	" 7/20 ...	182 11 0	"

FLEXIBLE WIRES

Cotton	14/36	23/36	
Workshop Flex	39 0 0	40 0 0	"
2 core	62 3 0	74 1 0	"
3 core	92 0 0	108 11 0	"

P.V.C. WIRES EQUAL TO V.I.R. (from I.A.B.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 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 (P. C. Clear 230/250 volts.)

	Rs.	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		per doz.	
		Rs.	
2 1/2 amps.	5 amps.	10 amps.	Each
Ganz 45 0 0	45 0 0	45 0 0	"
C.G.S. 38 8 0	38 8 0	38 8 0	"
Ferranti 43 8 0	43 8 0	43 8 0	"

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

	Rs.	Each
10 amps	105	"
20 "	120	"
30 "	130	"
50 "	155	"

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

	Rs.	Each
10 amps	145	"
20 "	168	"
30 "	182	"
50 "	217	"
100 "	272	"

AMMETERS & VOLTMETERS (English)

Ammeters 1" dial 0-10 amps	52 8 0	"
0-20 "	52 8 0	"
0-30 "	52 8 0	"
Voltmeters 6" dial 0-60 volts	75 0 0	"
0-120 "	80 0 0	"
0-160 "	85 0 0	"
0-230 "	100 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

	4"	1"
English	54 0 0	85 0 0
Indian	19 0 0	80 0 0

BRACKETS & GALLERIES

P.B. Brackets	7 5 0	3 1 0	per doz.
O.C.	8 0 0	2 0 0	"

D.C.C. WIRES

16 S.W.G.	1 1 3	per lb.
17 S.W.G.	1 9 3	"
18 S.W.G.	4 11 6	"
19 S.W.G.	1 11 6	"

INSULATING MATERIALS

Henley Black insulating	6 1 0	per 100 yds
cap 1/2"	9 5 0	"
Gallenders 1/2"	1 9 0	25 yds roll

TRANSFORMERS

English Victor V & E, 6'8 volt	4 8 0	each
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LINK CLIPS

Canal brand tinned joint clip, 1 1/2" and 1 3/4". 1 1/2" & 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. day light	13 8 0	"
Philips Holland 2', 20 W.	13 0 0	"
Ubahaya 40 W. Choke (India)	5 14 0	"

HEATING & COOKING APPLIANCES

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

CONVERTERS

Rotary converters, 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.	Rs. a. p.
single phase		
1 220/110 volts	...	950 0 0
2 20/110 "	...	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 96'
5 KW 1400 R.P.M. " Rs. 1,150 " 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
30	40	"	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 NWE 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
Other makes on application.

ELECTRIC COFFEE GRINDERS & ROASTERS

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 1 1/2 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.
I.E.W.	16"	120
Phoenix	14"	97
"	16"	102
Kassels	16"	125

Ceiling Fans A.C.

Complete with regulator, rod etc.

	Size	Rs.
Crompton	60"	200
"	50"	182/3
"	48"	170
Lucky	60"	180
"	56"	168
"	48"	160
"	36"	130

Kassels and Anand and Azad on enquiry

Phoenix	60"	191
"	56"	179
"	48"	166
"	36"	136

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

Blade size	R.P.M.	Air Displacement cu. ft.	Consumption Watts	Price Rs.
7 1/2"	1200	250	25 watts	95
12"	1350	1250	80 "	210
15"	1200	1500	110 "	240
21"	700	5300	270 "	175

D.G. exhaust fans on application.

V. MOTORS & SWITCHES ETC.

ELECTRIC MOTORS

Make—Crompton Single phase, 230-250 volts, 50 cycles, Capacitor type

H.P.	R.P.M.	Rs.
3	1130	190
5	1130	225
1	1120	267 1/2

3 phase, 100/110 volts, 50 cycles

H.P.	R.P.M.	Rs.
3	1130	365
5	1130	487 1/2
7 1/2	1130	600
10	1110	665
10	910	810
15	1110	825

Make—L.S.E. 3 phase, 100/110 volts, 50 cycles

H.P.	R.P.M.	Rs.
3	2880	327
7 1/2 (Encol.)	960	800

Pulley and Rods extra.

SWITCHES & STARTERS

Simplex I.C.D.P. 15 amps 250 volts	Rs. 6/8
M.E.M. D.P. 15 " 250 "	122 K.A. " 12
M.E.M. T.P. 15 " 500 "	315 K.A. " 23
M.E.M. T.P. 30 " 500 "	350 K.A. " 35
M.E.M. T.P. 60 " 500 "	360 K.A. " 60
M.E.M. 10 S.D. starter	" 75
M.E.M. 5 S.D. "	" 55
M.E.M. 44 A.D.S. "	" 37 1/2
M.E.M. 24 A.D.S. "	" 36
M.E.M. 84 A.D.S. "	" 40

TIME SWITCH

Vanner type M.D.S.L. time switch self-starting synchronous motor driven, single pole, A.C. 200-250 volts, 50 cycles, 15 amps capacity with arrangement to switch on and off automatically at predetermined timings. Rs. 125. Other types on application.

VI. PUMPS & PUMPSETS

SRI RAM PUMP for direct coupling.

Size	A impeller	B impeller
2" X 2"	Rs. 220	Rs. 230
2 1/2" X 2 1/2"	" 235	" 250
3" X 2 1/2"	" 244	" 250
3" X 3"	" 250	" 253
1" X 3"	Rs. 339	" 253
1" X 1"	" 311	

— for belt drive with fast and loose pulleys

2" X 2"	Rs. 230
3" X 2 1/2"	250
2 1/2" X 2 1/2"	255
3" X 3"	290
1" X 3"	295
1" X 1"	365
5" X 1"	370

SHIVAJI SELF PRIMING PUMPS

2 1/2" X 2 1/2"	240
3" X 3"	280
3" X 3" (heavy duty)	297

used for direct couple or V belt drive

SIGMA PUMPS

Type NL 1 2 1/2" X 2 1/2"	150
Type N 62a 3" X 3"	150
Sigma type N62a. R3" X 3" pump with flexible couplings and a 1 H.P. B.T.H. 1075 Wts. 3 phase, 50 cycles, 2800 R.P.M. Motor complete with suitable starter without Led Plate	Rs. 800

AUTOMATIC DEEP WELL PUMPSETS

Makes Self-priming automatic water system 310 gallon per hour at a height of 100 ft. with 1/2 H.P.A.C. motor with 12 gallons pressure tank, automatic switch. Rs. 1,175

Goulds' Best American make C.L.P. C. 3542 pump set comprising 12 gallon pressure tank with fittings, floating switch etc. are square worked by means of V belt with 1/2 H.P. A.C. single phase, 230 volts, 50 cycles motor for automatic. Rs. 850

MECHANICALS

VII. DIESEL OIL ENGINES

Engine	Cylinder	H.P.	R.P.M.	Price
RUSTON (vertical)				Rs.
1 V.T.H.	1	5-7 1/2	1000-1500	2,300
2 V.T.H.	2	10-15	"	3,300
PETTER (vertical)				
A.V. 1	1	5	1500	1,500
A.V. 2	2	10	"	2,250

NATIONAL (horizontal)

A.H. 1	1	5	1500	1,650
J.B.	1	10	500	4,650
K.B.	1	12	500	5,250

H.M.G. (vertical)

IS 16	1	10-12	800-1000	3,950
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LISTER (vertical)

3-1	1	3 1/2	650	
5-1	1	6	650	
10-2	2	12	650	

YANMAR (horizontal)

S-4	1	4	750	1,500
S-6	1	6	700	2,000
H-10	1	10	600	3,100

ROBEY (horizontal)

H.S. 0'16	1	23-25 1/2	345	7,600
H.S. 0'16 A	1	26-29	340	9,550
H.S. 0'16 1/2	1	30	330	10,150

LORENZ (horizontal)

E.B.N.	1	7	1300	2,100
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SKODA (vertical)

I.S. 110	1	10-15	1500	3,100
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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	3,465
3. R.C.C.	10/11	500	3,895
4. R.C.D.	13/14	450	4,990
5. R.C.F.	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)	Cyl.	H.P.	R.P.M.	Rs.
	1	8	1200	2,600
B-F Sanders (21)	1	6-8	1000-1200	2,500

(all cold start engines).

VIII. HARDWARE

GALVANISED PIPE FITTINGS (local)

	2"	2 1/2"	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	per ft.
2"	1 4	2 12	
3"	1 12	3 8	
4"	2 4	5 0	
5"	3 0		
6"	3 8		

HOSES

Suction	Ply	Price
2"	3	2 12
2 1/2"	3	4 8
3"	3	4 12
Delivery (Armonced)		
2"	3	2 12
3"	3	3 8

FILTER POINTS

Size	Indian	American
1 1/2"	20 0	45 0
1 1/4"	32 0	54 0

PULLEYS

Dia (inch)	2"	3"	4"	5"	6"	7"
8	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/4"
10						
12						
16						

FOOTVALVES

Size	Price
2"	15
2 1/2"	18
3"	20
4"	28

FLOUR MILLS

Size	R.P.M.	H.P. (required)	Output	Price Rs.
Make Indian	10"	600	2-4	200 lbs. 275
"	12"	550	4-5	300 lbs. 350
"	14"	550	5-6	400 lbs. 350

RICE HULLERS

Size	R.P.M.	H.P. (required)	Output	Price Rs.
Make Indian	No. 1	750	20-22	50 bags 450
"	No. 7	850	12-15	30 bags 400

DISINTEGRATOR

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

Other items on enquiry



WHERE TO BUY?

ELECTRICAL ACCESSORIES Etc.

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

Pomra 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:-

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.

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.

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 & Coy.,
195, N. S. C. Bose Road, Madras 1.
R. M. S. & Co., Ltd.,
16, Broadway, Madras 1.

FERRANTI METERS & CALLENDER CABLES ETC.

P. I. C. C. Ltd.,
37, Second Line Beach, Madras 1.

GANZ METERS, BILL SWITCHES & P.V.C. CABLES, ETC.

M/s. L.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

ZENITH & FERGUSON RADIOS

Universal Agencies,
2-18, Mount Road, Madras 2.

RADIOS & REFRIGERATORS ETC.

M/s. Mohamed Ibrahim & Co.,
Victory House,
Mount Road, Madras 2.

ELECTRIC MOTORS & PUMPSETS ETC.

Madras Engineering Agencies Ltd.,
11, Lingha Chetty Street, Madras 1.

AUTOMATIC PUMPSETS

General Machine Tools Corp.,
158, Broadway, Madras 1.

SRI RAM PUMPS

Nellikuppam Industries Ltd.,
335, 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.

"O.K." PUMPS & FLOUR MILLS.

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

P. S. G. PUMPS

Gordon Woodroffe & Co., (Madras) Ltd.,
North Beach Road, Madras 1.

PETTER OIL ENGINES

Perry & Co., Ltd.,
Dare House, Madras 1.

Modern Electric Co.,
Lingha Chetty Street,

Shanker Trading Co.,
Lingha Chetty Street, Madras 1.

National Engineering Co.,
N.S.C. Bose Road, Madras 1.

LORENZ, SKODA, YANMAR ENGINES & WOLF TOOLS, BLOWERS, ETC.

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

NATIONAL OIL ENGINES

Best & Co., Ltd.,
First Line Beach, Madras 1.

DEVILLE OIL ENGINES.

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

OIL ENGINES (general)

Asiatic Agencies,
198, Govindappa Naick St., Madras 1

COOPER OIL ENGINES

Marshall Sons & Co., (India), Ltd.,
Second Line Beach

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MASSEY HARRIS

M/s. Rallis India, Ltd.,
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M/s. East Asiatic Co. (India) Ltd.,
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Tractor Department,
Peters Road, Royapettah, Madras.

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TENDER NOTICE

Sealed tenders are invited for supply, delivery at site and erection (at the option of the purchaser of switchgear and equipment for five-33 kV. Transforming sub-stations to be erected in Delhi for utilization of power from Nanga Hydro-Electric Project of the East Punjab Government. The tender covers 33 kV, 11 kV and 6.6 kV. switchgear and equipment in the above sub-stations.

Tender specification, terms and conditions of contract and necessary drawings shall be available from the undersigned on payment of Rupees twenty five only per copy. Tenders will be received upto the 15th of October 1951, and shall be opened on the following day at 11 a.m. Not more than four copies of tender specification can be supplied to any one tenderer.

B. PAUL,
Chairman, Delhi State
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