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TECHNOLOGY TRANSFER POLICY:

- SOME CONSIDERATIONS -

TURKEY !

(TS/TUR/~ /011/A)

Report findings and recommendations 1

Mission report prepared for the Government of Turkey

Nubert A. Janissewski
for the
United Nations Industrial Development Organization

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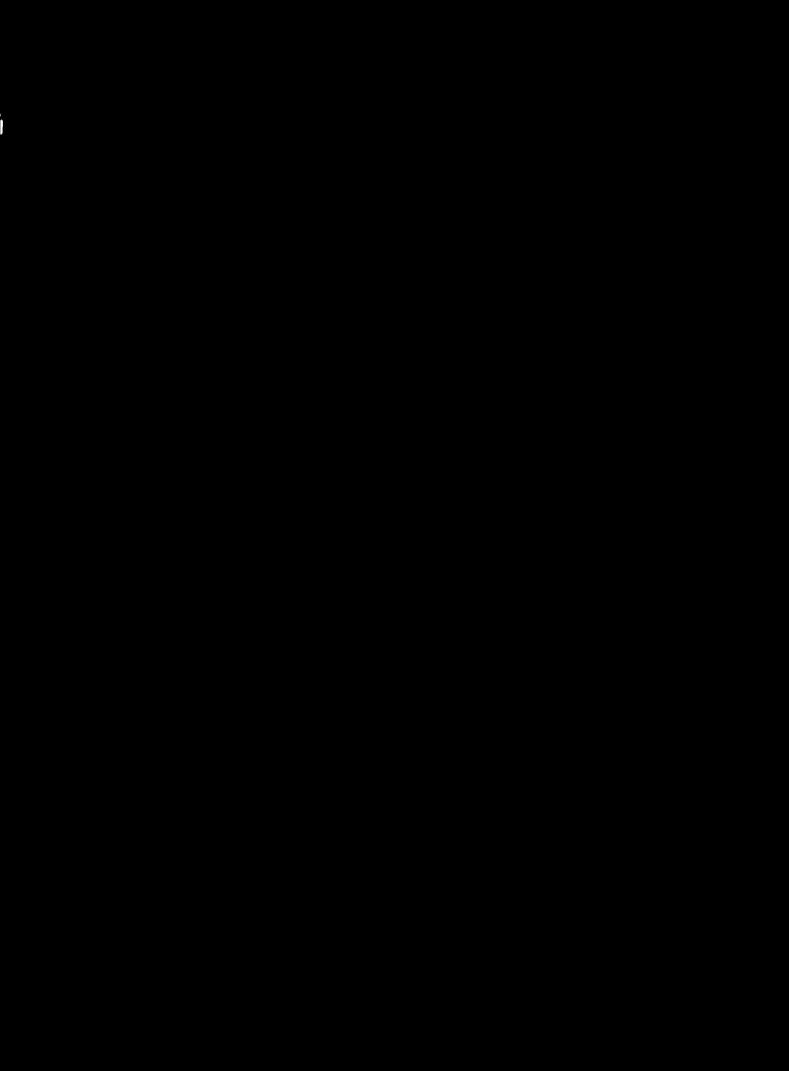


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The present report contains the analysis of current praxis of approval procedures being in force in Turkey, concerning foreign proposals related to various technology arrangements.

Moreover, mission findings and comments on the actual situation in Turkey in this respect are also included in the report.

The two last chapters of the report cover areas of potential concern of the Turkish Government in the field of regulation of transactions related to technology transfer as well as mission recommendations.

Attached to the report are several annexes who form the integral part of the report.

The recommendations of the report are based on extensive discussions with Government officials met during the mission and draw on the experience of other developing countries who encountered problems similar to Turkey in the area of regulation and promotion of technology transfer.

INTRODUCTION

The Sovernment of Turkey requested the United Nations Industrial Development Organization (UNIDO) to send an exploratory mission to review the existing institutional and legislative machinery dealing with technology transfer.

During its stay in Turkey the mission, which was carried out by Mr. H.A. Janiszewski, UNIDO staff member (IIS/ISID), has met and discussed with representatives of the Ministry of Industry and Technology, the Ministry of Pinance, the Ministry of Commerce, the State Planning Organization (SPO) and the State Investment Bank.

Unfortunately, is to the limited period of time the mission was not able to conduct consultations with representatives of State Boonomic Enterprises (public industrial sector) and private industrial. The present report including the annexes reflects the main decisions and opinions drawn from consultations with counterparts and takes into account views and suggestions of Pirki h officials.

The mission wishes to express its sincere gratitude to the SPO, the Ministry of Industry and Technology, the Ministry of Pinance and the Ministry of Commerce for the most useful information and crientation given by them. It is on this basis that the mission was able to formulate various recommends ions and suggestions contained in this report.

The mission is especially grateful to :

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- Mr. UMUR URIS Assistant Undersecretary at the Ministry of Industry and Technology;
- Mr. TARIK EIVANC Deputy Director General of State Investment Bank

- Mrs. BETHAN BERTAN Director of Manpower and Training Department, Ministry of Industry and Technology
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- No. TERCAN Head of Private Foreign Capital Section, Ministry of Finance
- Mrs. RUBAN CHORL Department of Industry at the Ministry of Industry and Technology
- Mr. SAMAP AYDEMIR Chief of Industrial Property Section, Ministry of Industry and Technology

The mission would also like to express its gratitude for the expellent assistance received and everall evicatation given in Ankara by the UNSP Office and in particular by the Recident Representative, Nr. A. SHALLON, Assistant Resident Representative, Nr. B. RADOVIC and Nrs. INCI KURNUS, Programme Officer.

Dec appreciation is also given to URP Office in Ankara for all assistance and arrangements made prior and during the mission.

Under the country's Third National Development Plan (1973 - 77) and a long-term forecast covering a period of 20 years, the ultimate goal of Turkich technological policy is to decrease the everall dependence on foreign technology and to gradually increase the local technological capabilities, those of infantry and the research and development facilities. The long-term plan foresees the joining of the European Common Market by Turkey in 1992 and for this purpose major importance is being attached to the acceleration of industrialization and sodermisation of the occases.

One of the problems emountered at the present and future planning eyeles is the unemployment which through, inter alia, technological policies is to be considerably reduced if not totally liquidated.

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For this purpose priority objectives in a sense of introduction of capital intensive technologies and labour intensive technologies have been established for certain specified industrial sectors which take due consideration to unemployment problems. This policy, however, has on a long term encountered major difficulties in the past in a sense that industry did not necessarily fellow the Government's intentions.

It is to be noted that the complex problems related to technology transfer, technology adaptation and technology development, would largely have to be solved through a matismal conscientiousness of the nature of these problems, the political support to solve them and the introduction of concrete measures for implementing a plan of motion in this field.

It should be recognised that for a successful and efficient regulation of policies in the field of technology, joint efforts are required on the part of government institutions and particularly of public and private enterprises.

The report is divided into three chapters :

- Chapter I covers mission findings related to the existing situation in furkey in the field of technology inflow;
- Chapter II reviews the areas of concern in the definition of a governmental policy and strategy in this area;
- <u>Chapter III</u> provides recommendations and suggestions for the consideration of the Turkish Covernment for possible action in this field.

- I. EXISTING SITUATION IN TURKEY IN THE FIELD OF INPLOW OF POREIGN TECHNOLOGY MISSION FINDINGS
- 1. The overall ultimate goal of the present Turkish development pelicy may be described in short as joining the European Common Market by 1992.

To achieve such a target, the development planning has been subordinated in a way to enable Turkey to reach such a level of everall development so that full membership of the Common Market will be possible and beneficial to the country.

Within the framework of overall development policy, Turkey's technological policy is oriented towards the gradual decream of dependence on foreign technology and the gradual increase of indigenous technological capabilities both existing in industry and in local research and development institutions. The present report, due to the limited character of the sission, will deal primarily with problems of decreasing the dependence on foreign technology.

2. Usually the inflow of foreign technology - considered also as one of elements of foreign capital - is carried out on the basis of special government regulations like the Fereign Investment Encouragement Law nº 6224 dating back to January 18, 1954 (1) as well as the Petroleum Lesse nºs 6326 and 6987. Certain regulations concerning per ecliponing and know-how agreements are covered by the decree nº 17 relating to Invisible Transactions Notifications.

The employment of foreign personnel, which in view of the Turkish Government may also bring into the country certain know-how or technology, is subject to regulations by laws nos 2707 and 2880.

3. For the sake of clarity, a description of the existing legislation and administrative precedure will be given with particular emphasis on evaluating and approval process as imposed by various laws.

⁽¹⁾ The full text of the law is reproduced in Annex II of this report.

4. On the basis of the laws nos 6224, 6326 and 26987 the foreign capital may come to Turkey in the form of technology as described for example in article II of law no 6224 in the form of "intangible rights such as licences, patent rights and trade marks and services".

Because of a special attention given to the petroleum industries a special legislation has been enacted enabling investment in this sector also in the form of capitalized patents, licences and know-how (see article 3, para 30, sub-para c, section of the law n 6326).

The legislative acts as above apart from enabling investment in the form of technology inflow required the Government's approval of all contracts, subject matter of all above-mentioned laws.

The Government's approval procedure is combined with scrutiny and evaluation procedure, which may be described in detail as follows: as regards the law n° 6224, a local entrepreneur is obliged to submit a special application in 5 copies to the concerned department of the Ministry of Commerce. After a preliminary evaluation by the Ministry of Commerce the application in 4 copies is being passed along with the comments and opinions to the State Planning Organisation for final assessment and recommendations. On the basis of the SPO assessment, the Council of Ministers issues, published in the Government gasets, a decree concerning particular cases, which is the formal basis for the start of a particular undertaking. Table n° I gives a graphical picture of the procedure described above.

The main consern of the Ministry of Gommerce is the evaluation of the project taking into account the following main criteria:

- (a) The novelty of technology being brought into the country
- (b) Increase production capacity
- (c) Minimum export output (usually 15 %)

The SPO and particularly its ad hec Foreign Investment Committee - taking into consideration findings of the Ministry of Commerce - undertakes the detailed project evaluation by taking into account

also the project relations and compliance with development planning, effect on employment situation and economical viability of the project. The SPO also undertakes certain consultations as to the technological contents of the project with respective sectorial sinisters as well as to a certain degree with the Ministry of Pinance.

Because of the law provisions enabling capitalization of intangible rights, it is allowed to calculate it on the basis of capitalized value of technology at O-year of a given project. The insue of the decree of the Council of Ministers usually specifies in detail allowed rates of royalty payments to foreign parties in addition to transfer of profits. The described procedure is valid both for private and public sector industries.

As a number of public sector undertakings are being financed by credits obtained through the State Investment Bank, such undertakings should be included in the annual investment programs provided that at least a 51 % share of their capital belongs to the Turkish party. The State Investment Bank before granting any credit carries out its each evaluation of the project irrespective from above-mentioned procedure.

As mentioned earlier, due to the particular place the petroleum industry occupies in the Turkish industry, a special legislation has been emacted for such ventures. In accordance with this legislation applications are submitted to the Petroleum Administration, which after the necessary evaluation issues respective decisions.

5. On the basis of the actual legislation in force in Turkey, all per se contracts related to acquiring licence, patent rights, trade marks and know-how are subject matter of approval procedure in accordance with decree a 17 (Invisible Transaction Notification).

Accordingly, apprepriate applications are submitted by would-be Turkish licencess to the Ministry of Finance, which after consultation with the Ministry of Industry and Technology (respectively Ministry of Agriculture or Ministry of Health) approves or rejects particular transactions. Table II shows a graphical picture of the approval procedure in detail.

Within the Ministry of Finance, its Division of Foreign Economical Relations carries out financial analysis of all submitted agreements. Its areas of concern are considerations of rate of exchange applicable on payments and availability of foreign currencies. In addition to this general consideration, there exists a detailed checklist according to which each contract is being scrutinised. The following criteria are being applied and scrutinised in such evaluations:

- The period of agreements should not exceed 5 years (for extension, the approval of the responsible authorities should be eought).
- The royalty rate should not be more than 4% gress.
- The agr ement should be implemented in accordance with the Turkish Law.
- No lump payment should be made.
- Taxes and other dues are to be paid in Turkey from the reyalty amounts by the Licencor.
- The current rate of exchange should be applicable at the time of transfer (no guarantee of rate of exchange).
- Payments should be made in one of the senvertible surrencies.
- The local firm should continue production without the use of foreign registered mark after the termination of the agreement.
- The know-how should not be limited to certain restricted fields but also include possible improvements over the period of the agreement.
- The sale of the product, produced in Turkey under licence should not have any expert limitations.
- The licencor warrantees should include provisions that the production by the licencee is of the same quality as that of the licensor.

- The net rules price should be taken as the base for computation of royalties and all packaging, transportation, insurance, reduction, expenses, taxes, import price should be deducted from this.
- The technicians of the licensor visiting Turkey should not be paid extra, that is in addition to accommodation, daily subsistance and transportation, expenses.
- In case of conflicts arbitration of the Paris International Chamber of Commerce should be saught.

It is the usual praxis of the Division to consult with the interested party the certain conditions of the evaluated contract. Licensing fees are subject matter of 23% tax deducted from payments due to the foreign licenser.

- Industrial Department carries out the bulk of economic and technical screening of the agreements. Here, in consultation with the Science and Technology Department and the Industrial Property Section a technical screening is being made as well as the economical evaluation of the contrast. The internal guidelines (unpublished) have been elaborated to scrutinise the contracts and are divided into 3 main groups a The general evaluation takes the following elements into consideration:
- (a) Whether similar technology is already being operated in the country;
- (b) Hevelty of the technology, subject matter of the agreements;
- (s) Value-added factors in terms of fereign exchange earnings, manpower and income creation factors;
- (4) There of foreign inputs in total output of a particular project.

The following group of previsions are in principle not allowed in the contracts:

(a) Report limitations;

- (b) Tied-in provisions;
- (c) Price fixing of final and intermediate product previsions;
- (d) Annual minimum royalty provisions;
- (e) Excess of payments in relation to the value of technology;
- (f) Limited utilization of local raw material, spare parts and components (unjustified quality control arrangements);
- (g) Limitation on production and export quantities;
- (h) Limitation on use of technology after expiration of agreements;
- (i) One-sided grantback provisions;
- (j) Lack of licensor's varrantees as to validity of patents and third party infringement;
- (k) Limitation on trademark use:
- (1) Other provisions related to the nature of agreements.

The other group consists of following provisions, which in principle should be included in all agreements:

- (a) Duration of contracts should in principle not exceed 5 years;
- (b) Licensor should warrant the validity of patents and the defence against third party imfringements;
- (a) Each party should have the right to terminate a contract prior to notification;
- (d) Maximal royalty rute at \$6 on not calco;
- (e) Licensor should guarantee the mane quality of preducts manufactured by the licensee;
- (f) Preference is given to the liseasor with large network of liseacces. When comparing the check list of the Ministry of Finance with that of the Ministry of Industry and Technology, the similarities are abvious.

7. As might be seen from the above review of the legislative and administrative procedures prevailing actually in the country, there exists in principle relatively broad in scope a legislative basis enabling the Government to play a regulatory role in the process of flow of foreign technology into the country.

According to the mission's epinion, there is, however, some degree of inconsistency regarding two sets of legislation (one cevering technology contracts sensu stricts and the other related to technology contracts in the frame of fereign investment), which lessens the efficiency of the system considerably.

Secondly, the evaluation and administrative procedures of the contracts are accordingly subjected to separate analyses without much interlinkage and therefore does not guarantee effective and consistent decisions.

The mission was able to review the amount of applications processes at each governmental department concerned as well as staffing. In addition, the mission was given some information as to the administration and information - reference system applied.

Table III

STAFFING AND PROCESSED APPLICATIONS BY ALL GOVERNMENTAL DEPARTMENTS CONCERNED WITH SCREENING OF TECHNOLOGY

| | Number of Evaluations PSF year | Number of Professionals | |
|---|--------------------------------------|----------------------------|--|
| I. WALDATION BODIES | | | |
| 1. Pereign Economics Relations Divi | sion 60 - 70 | 5 | |
| 2. Industries Department | ea 100 | 6 | |
|). Investment and Incouragement Department | . • 30 | 8 | |
| 4. A4-hoc Pereign Investment Committee | not available | 3 - 4 (?) | |
| 5i-HPG | • | 4 - 8 (7) | |
| II. COMBULTATION BODIES | | | |
| 1. Industrial Property Section | | 7 | |
| | | | |

3

2. Stience and Technology Department

9. Generally, the available records of agreements processed go tack to 1909-70 - with simple cross reference systems as regards the licences and subject matter of the agreement.

The Science and Technology Department is among other things in charge of maintaining working contacts wis.: TUBITAK (Scientific and Technical Research Council) and TURDOK (Turkish Decumentation Centre) as well as with other research centres in order to be kept updated on the newest developments in all technological fields and with the evaluation bodies respectively.

He efforts have, however, been made to increase the direct access of evaluating bodies to information centres, particularly abroad.

There is also a rather limited, if any, exchange of information between systems of evaluations made at the Industry Department, the Investment and Emcouragement Department as well as the relevant departments of the Ministry of Mealth, the Ministry of Agriculture and the Petroleum Administration, which is the result of lack of adequate interliminage among government agencies.

10. He effort has been observed as to presetional and infernation services available to industry both private and public by governmental bedies concerned with the approval and evaluating precedures.

The internal guidelines and checklists as described above are developed on the basis of experience of the departments themselves and on a case by case analysis male by separate departments.

According to the mission's findings, no affort has been made for analytical and research studies aixed towards the slaboration of generally applicable sesterial evaluation methodology which might be applied in a systematic way by all governmental departments concerned.

11. The guidelines and checklists as presented are of pretty general nature without such scientific and analytical support and therefore though they serve in a limited degree its purpose, they can hardly be considered as a useful and effective tool for thereugh and in depth financial, economical and technical analysis of agreements. The agreements are subject matter of screening procedures, which due to limited experienced staff lack the in-depth methodology, which should support specific objectives of technological policy of the Coverment.

The majority of the mission's counterparts commented about lack of access to up-to-dan information on methodology on economical, technical and financial analysis of licencing and know-how agreements. It seems that knowledge of this subject within the industry is even far lower.

II - MAIN AREAS OF CONCERN IN THE REGULATORY ROLE OF GOVERNMENT
IN THE PROCESS OF POREIGN TECHNOLOGY INFLOW

18. On the basis of knowledge and experience accumulated so for it is possible to say that transfer of technology policy should be subscribed to overall scenario and social development objectives. Yet such an explicit policy may take into consideration such fields as science, economics, employment, education and industry.

In summary, the fermulation and implementation of technology transfer policy should be oriented towards the following main objectives:

- (a) A more efficient process for the selection of foreign technology
- (b) The development of negotiating skills conductive to obtain better contractual conditions:
- (a) A nore efficient process for the adaptation and absorption of imported technology;
- (d) The grainal development and execution of local technological combilities.

To achieve these objectives, the mission wishes to recommend for consideration of the Turkish Government the introduction of explicit, regulatory and promotional measures in the field of technology transfer, which will include among others the consolidation of functions of existing governmental bodies into one central efficient organization.

It should be stressed that an adequate strategy will call for institutional support and Government guidance in order to enable local enterprises to become more efficient and to gradually achieve a degree of self-reliance. In addition to the fractuous of the transfer of technology policy, there will be a nosu to identify the requirements of the local entrepreneurs and to differentiate the various types of industries within the courtry, including:

- (a) State economic enterprises
- (b) large private national enterprises
- (c) Small and medium national enterprises
- (d) Pereign subsidiaries or joint ventures

13. Taking as a basic the objectives outlined previously, the mission wishes to suggest the reorganization and consolidation of functions of existing government agencies into one organization that would have the sols reasonabilities in the following areas:

A. Selection of foreign technologies :

The mission acknowledges the existence of Government skills in the negotiation of foreign proposals in the industrial field. The responsibility of this lies at present with the Ministry of Industry and Technology, the Ministry of Commerce, the Ministry of Pinance, the State Planning Organisation and the Petreleum Administration. On the other hand, it was possible to ascertain that this experience is up to a certain degree kept within limits and without much interexchange between particular organisations. It is suggested that the scope of responsibilities of the central government agency will include such agreements where the main objective relates to:

- i. Use or exploitation of trade-marks;
- ii. Use or exploitation of patents;
- iii. Use or exploitation of secret non-patented know-now;
- iv. Technical information in form of plans, diagrammes, models, operating manuals, formulas, specification and training of personnel
- v. Consulting agreements of any type;
- vi. Supply of basic or detailed engineering
- vii. Management or administrative systems;
- viti. Franchising agreements.

For the sake of clarity certain definitions concerning the scope of international licencing agreements are presented in Annex I of the present report.

The identification of international sources of supply for technology will require support of information facilities in order to maintain and update the reservoir of technical data on available process or products which are of particular interest to industry. Purthermore, evaluation of alternate technologies will certainly require the strengthening of the evaluating capabilities of such a central agency. Government institutions should also have to assist the productive units in the country in improving their capabilities for evaluating and negotiating various contractual provisions. It should be underlined that proper co-ordination among responsible institutions working in this area is essential in order to reach a solution which is both technically and economically sound. In this light the upgrading of technical skills through adequate training programmes at the planning and implementation stages of the project is of particular importance.

B. lasrovement of negotiating skills

The mission was able to ascertain that at present there are no emplicit policies for the regulation of technological transactions in an effective and co-ordinated manner. From the experience of other countries, in particular Brasil and Mexico, it was found that the absence of specific policies and institutions to deal with the screening and approval of foreign licencing proposals generally results in undesirable centractual arrangements due to weaker bargaining

position of recipient enterprises in these countries. Furthermore, without the proper guitance many technical collaboration and services agreements are contracted without due consideration to the top priorities of the country. Drawing further from the experience of these countries, as well as highly industrialized countries like Japan, it should be recognised that local enterprises both public and private have a contral role and responsibility not only for the implementation of specific projects but also in the decision-making process to formalize licencing arrangements.

In this context the mission wishes to recommend the need for development guidelines for the acceptance of technology transaction with foreign enterprises and the meed for the Government to provide guidelines and institutional support to improve the negotiating skill of recipient companies.

As mentioned earlier, the regulatory functions of the central agency would have to be complemented by not less important promotional efforts to adequately encourage the import of technology in priority sectors of the economy. It should be noted that the introduction and successful implementation of a regulatory policy in the field of technology would require the highest Government support at the political and institutional level.

C. Criteria for the evaluation of technological agreements

The mission wishes to submit for consideration of the Government troad guidelines for the acceptance or denial of international licencing proposals as well as some recommendations concerning the methodology that may be introduced for this purpose and to highlight some of the aspects that require attention from the port of the Government agency dealing with these matters.

Purthermore; the mission resonants to undertake important additional work in this field preferably coupled with expept assistance from UNIDO in order to assist in the definition of methodology and oriteria for evaluation

These are preliminary suggestions and by their nature not exhaustive.

The work of a responsible body within the government in the area of scrutiny and appraisal of technology agreements calls for a sultidisciplinary approach and should be provided in an integrated manner.

The degree of authority to be invested in the government agency will have to be properly defined, and foreign proposals would have to be submitted to a detailed legal, economic, financial and technical scrutiny.

The purpose of this evaluation is not only to ascertain that contracts comply with all related legal provisions existing in the country as it took place so far, but also to oritically evaluate, if the technology or services as well as the obligations and responsibilities to the parties, are acceptable both, to the recipient enterprise and to the Turkish economy.

In addition to legislative acts enumerated earlier, a number of juridical and administrative provisions existing in the country require special attention, i.e. industrial property legislation and fiscal and tariff policies, etc..

An important aspect that requires further consideration from the part of the government will be to explicitly define the conditions under which technology transfer arrangements into Turkey can be sent laded.

In line with the above, two important requirements were identified:

1. That all agreements involving the transfer of technical knowhow, services and other kinds of intellectual property (involving fereign equity participation or not) would be reviewed by a competent bedy within the Ministry of Industry and Technology.

- 2. That specific guidelines for internal use should be developed.

 Some of the basic elements to be incorporated in these guidelines are inscribed below:
 - Foreign licencing arrangements should include a provision whereby the recipient enterprise or the Government of Turkey could acquire explicit rights to the use and exploitation of the technology licenced, and the period of these rights should be clearly specified in the agreements.
 - "Frior disclosure" of technology from potential licensor to licencee should be encouraged so that the government agency and the recipient enterprise could judge upon the suitability of the know-how and ascertain the type of improvements and services required for the implementation of a specific project.
 - In order to properly evaluate foreign proposals, the agreement should clearly define the main features of the process or product to be licenced.
 - In cases, where the licencee is mainly acquiring the right to practice a process, the term know-how should be clearly expressed and defined in the agreement. In this connexion, the concept of "technical information" and/or "technical services" should only be treated as a complement to the know-how. Similar considerations concerning a more explicit definition of the "field of use" will be important.
 - The remuneration for the various elements of a contract is to be related to the most essential component of the licencing agreement in order to properly ascertain the value of the licensor's contribution.
 - Whenever various elements are involved in a technology agreement, each one should be evaluated separately and the corresponding remuneration determined, not only to ascertain the relative value of each, but also to provide the basis for determining the licensor's responsibility concerning performance in any of these elements.

- In projects of special importance, the concept of net present value should be introduced as a tool for evaluating the remuneration, together with other economic and technical considerations.
- Where the main element of an agreement relates to an industrial process, the licenser should provide process performance guaranties and/or warranties, as applicable, in order to critically identify its adequacy.
- Process guaranties should be covered by the licensor's financial responsibility and his liability would have to be in close relation to the value of know-how.
- Where process guaranties or warranties are negotiated, provisions should be made for the licensor's <u>discharge</u> of <u>liability</u> by introducing certain provisions for process correction. If the option to pay liquidated damages is available, there should be a provision for licensoe to exercise this right in an independent manner.
- On a selective basis a "most favoured licencee clause" should be incorporated in agreements related to new technologies, to compensate the licensee in the event that in future the licensor licensees his know-how to a third party in another country on a more favourable basis.
- To ensure a dynamic flow of information between the licensor and the licensee during the life of the agreement. This should provide for the licensee's access to the licensee's plants and related MAD facilities.
- Cobain that the licensor inferms the licenses on "improvements of technology" and ensure that the licenses has the option to use such improvements commercially, including those, that are not summercially practiced by the licenser.

To delian the know-how licensed; as the know-how in use or in position by the licensor during the life of the agreement in order to prevent arbitrary separation of know-how from process improvements.

Concerning paid-up licences, it would be in the interest of the recipient company in Turkey to extend the duration period of the agreement to the maximum possible, as the licensor's new technical information could be acquired without further compensation.

rance outlined above, are only descriptive and rear rance of concern from the large concern. These provisions could assist in at value of one of the following results:

- William of the continuous and efficient transfer of know-how there is density diseasor to a licencee in Turkey;
- that the recipient company acquires the technology with energiate 2 calledge of all the critical and competitive aspects, so that it can master its operation;
- that a clear definition of "know-how", "technical infernation", etc. is inc reprated in contracts;
- that retuneration to the foreign licensor is determined in relation to the main elements that form the licensing transactions (i.e. krow-how, patents, etc.);
- that the remineration and other forms of compansation bear a close relationship to the technology or nervices acquired, and is keptured in the line with international norms in specific sectors;
- that the recipient company in Rurkey is adequately eriented commercial; the technical performance of processes through the introduction of explicit process guaranties and/or varranties;

- that the agreement clearly specifies the responsibilities of the foreign licensor and the recipient company, in achieving performance of the technology;
- that the recipient company in Turkey will be able to effectively operate in the market-place by negotiating all technology aspects related thereto:
- that a dynamic flow of information on technological improvements is secured;
- that the absorption of the technology occurs within a reasonable period of time;
- that the recipient company in Turkey will be in a position to efficiently operate the plant after the agreement ends.

D. Bralustion and Payment for Technology

An important element in the evaluation and negotiation of foreign technology proposals is the payment for technology. This question is dependent on the scope of technical know-how or services to be required: The criteria for its analysis will have to be developed over a certain period of time. Nevertheless because this is an issue of special importance for the future work, various considerations are presented in order to highlight certain features and possible requirements at the governmental level.

It should be recognised that the evaluation of the cost of technology or services is a complex exercice. However, one of the main responsibilities of the central government agency would be to develop the necessary skills to judge the direct cost of licencing transactions and its effect upon the national economy. Brawing upon the experience of other developing countries in this area, two basical considerations emerged:

.. Prove the part of view of the recipient company the rate of compensation is normally determined on the basis of a cost benefit analysis at the enterprise level.

ii. From the point of view of economy, additional to the cost benefit criteria at the level of the enterprise, it is important to judge upon the cost of technology in relation to its value adding potential, that is upgrading local capabilities, employment of labour, foreign exchange and fiscal considerations etc..

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on the do end through different modalities such as running royalties,

that eventures the fees, paid-up licencing fees or a combination

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Ferhal the most convenient form of looking at royalties is to consider them as lineasor's share of licensee's profit. In fact, a loyalty or profit would be the simplest form of compensation statement were it not for the difficulty of defining profit. Royalties on sales and production can be looked upon as derial expressions of the profit criterion. Thus, sales royalty can be looked upon as follows:

Licencee's sales value

Licencee's sales value

Licencee profit

Licencee profit

Licencee sales value

Thus, if the licensor wants a 20% share of the licensee's profit and the licensee's profit is estimated (by the licensor) at 30% of sales, his royalty rate expectation would be 6%.

Similarly, royalty on product-unit could be seen as :

Royalty on product = Licensor profit x Licencee profit Unit product

Sales royalties preponderate in licencing agreements because the licensor can better estimate licencee's profit-on-sales than on unit product. For unit-product royalties, the licensor's trend is to first work out the sales royalty and then derive from it product-unit royalty.

The licencor's expectation of royalty is also in terms of the length of time involved - the duration period of the agreement. In the males-royalty calculation made above, the 6% royalty may only hold for a 10 year period with plant operating at 100% of designed capacity. However, in regulated technology programmes, the Government is equally interested in knowing the cost of the technology over the duration of the agreement (for this is expenditure of foreign exchange).

Establishing the absolute cost of technology and relating it to industry norms becomes a necessary part of the Government's regulatory exercise. Where there is a deviation from "industry norms", specific "tests" need to be applied to the transacted technology, such as raw material savings, export-earnings, etc. to determine its allowability.

Where the licensor applies a straight-forward fixed-fee to the technology (as often happens in chemical process technology), its absolute cost becomes evident but the difficulty introduced is its comparability to "industry norms" which are usually termroyalties. The question arises: what is the acceptance criteria to be used for fixed fees, paid-up fees, "out-off" fees, etc.. Where the licensor applies "running royalty" (term royalty), comparison to "industry norms" becomes easier. However, the absolute cost of the technology becomes difficult to establish.

It is the recommendation here that the concept of Net Present Value (NPV) be used, for converting term-royalties to paid-up royalties and vice-vursa.

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14.82

NPV is essentially from the compound interest formula:

$$R = R_0 \inf_{r} (1 + \frac{r}{100}) \quad n$$

where,

R = royalty payment made in n-th gear

Ro= MPN of fittre royalty payments

r = discointing rate

n = year from "serio-year" on which payment is received

For example, if the following is the sales forecast and royalty payment liability in a beyon contract at 3% royalty on sales :

| | 1975 | 1976 | 1977 | 1978 | 1979 | 1090 |
|------------------------------------|------|------|------|------|------|------|
| Sales value (*000 3) | 100 | 150 | 200 | 250 | 250 | 250 |
| Royalty payments(P) (*000-3) | 3.0 | 4.5 | 5.0 | 7.5 | 7.5 | 7.5 |

The 1975 NPV for each payment at a 10% (r=10) discount factor is :

| | <u> 1975</u> | 1976 | 1977 | 1978 | 1979 | 1980 |
|-------------|--------------|------|------|------|------|------|
| NPV (*0003) | 3.0 | 3.72 | 4.5 | 5.1 | 4.15 | 4.35 |

The "paid-up" assessment of royalty, in terms of 1975 value, is thus \$ 25,320 against the undiscounted payment of \$ 36,000.

The NPV assessment method can be used to reverse the process, thus obtaining the term-royalty equivalent of a fixed fee.

The applicable formula would be:

$$R = RO \left(1 + \frac{k}{100}\right)^{-n}$$

Where, R = undiscounted total royalty gayment ever duration of contract = 5.t.

Ro = Paid-up fee, fixed fee, etc.

K = discounting rate, (10 if rate is 10%)

n = term of agreement, years

R = S.t. where,

s = aggregate sales value over contract period of n years

t = average royalty rate (to be determined)

Thus, if $3 \text{ } 20 \text{ } 12^{-1}$ were the fixed fee on a 6-year contract where, aggregate cales value is 3 1,200,000 and K = 10% (discount factor), the formula would be re-expressed by :

$$(1,200,600)$$
 (t) = 25,320 (1 + $\frac{10}{100}$) 6, in which case t = 3,7% = average royalty rate

It is important to note that in the reversing process "t" does not equal 3% (of the first example) because "t" here is an average royalty rate and assumes that royalty income will be (or is) the same 1. every year of the contract i.e. a plant operated to expacitly, common in the process industries.

The MIT value of a licence fee can then be gauged against licencee investant, licence's sales over duration of agreement, etc. as is currently paing done with undiscounted royalties.

E. (pitaliza an at intensible rights

The present legislation existing in Turkey allows the importation of for ign capital also in the form of capitalised intagible regits.

So far the present praxis was that the value of capital in the form of expitalised intangible rights has been calculated on the basis of the value of technology or know-how at a O-year of a given project. It seems, however, - as has been proved by the experience of other developing countries, that capitalisation of intangible rights being a complex question has both positive and negative aspects. The positive elements may occur when local companies do not have accome or do not have financial resources for financing a given industrial undertaking. Semetimes also when technologies are available only from one source, there is no other choice as to agree to equity participation where foreign capital is brought in a form of capitalized know-how. On cortain project captualisation of the know-how may prove to le a desirable contest ... seder to secure greater throllement than the licensor in a path graphs field and for an accured period of time. On the other hand, however, tr maker of instances capitalisation of know-how may lead as a final effect to emecative payments for technology.

A situation as this occurs usually because of depreciation of the real value of technology in the course of time on one hand, and on the other because of increase of the shares value over the same period of time. Therefore if, let's say, the value of technology at the O-year of a project has been estimated at 500,000 USS and this know-now has been capitalised for equity capital constituting 50% of the total capital, such a situation holds only for the O-year of the project. The real value of technology in the, let's say, 7th year of the project will be some 200 or 300,000 S, while at the same time the real value of the 50% of the job or apital of the company may reach some 7 or 800,000 S.

Capitalization of intangible rights is therefore of a particular importance and belongs to the most complicated issues, particularly when an extension of a project is foreseen in the form of capitalization of intangible rights supposed to increase the capital of a given company.

III - RECORDEREDATIONS FOR VARIOUS ACTIONS IN THE FIELD OF TRANSFER OF TECHNOLOGY

Within the framework of previously described findings and areas of concern, the mission wishes to recommend for consideration of the Turkish Covernment the following:

 The need for the establishment of a central agency for the regulation and promotion of foreign technological and licensing transactions.

Such an agency should combine the existing facilities and agencies in the Government and might be loopted at the Ministry of Industry and Technology. Table IV shows for the occasionation of the Government the organizational lay-out of such a captual evaluating agency. It is strongly recommended that the contral regulating agency will concelled to existing functions of departments.

of SPO, Ministry of Pinance, Ministry of Commerce and Ministry of Industry and Technology. The central agency once it starts functioning and consisting of staff from all above-mentioned departments, will assume total responsibilities of evaluating, screening and approving of agreements related to technology transfer. It should be mentioned that specific UNIDO assistance may be secured for the smooth organisation and putting into operation of such an agency.

The central evaluating agency should in principle assume the functions of all existing governmental departments and include the following functions:

- (a) Proper co-ordination of legislative and administrative procedures in the field of industry, technology transfer, foreign investment, industrial property and fiscal policy;
- (b) The definition of Government criteria and guidelines for the selection, evaluation and approval of foreign technology proposals.
- (c) The identification of Government policies and procedures in this field at the international level;
- (4) Triablishment of direct communication and co-operation among other developing countries where such institutional francourt egists;
- (e) Secure closer association with the productive units of the country, specialised technical control and universities and Government agencies having responsibilities in these matters.
- ?. There will be a most for the elaboration of a single legislative pattern, which will govern the evaluating and approval procedures of all agreements related to transfer of technology arrangements.

It is the feeling of the mission that a let of ground is already nevered by existing legislative measures, but in the process of restructuring and consolidation of the functions of control evaluating agentics, these legislative measures should be updated and adapted to the long-term technological policy goals of the country. The argenthsed of appreding the skills of Government officials dealing with evaluating and screening of transfer of technology arrangements.

In this line, a UNIDO assistance is suggested in the organisation and carrying out, consultation of a training character for such Tovernment officials and at a later stage for personnel of state economic enterprises as well as of the private sector.

It might be also possible to prepare a tailor-made fellowship programme for employees of centrel svaluating agencies under UNIDO guidance in order to acquaint them with similar offices in other developing countries like Mexico, Brasil or Argentina.

4. It is also recommended for the consideration of the Government that the central evaluating agency will from the very beginning start intensive promotional efforts within state and private industry.

The aim of such afforts is to gain support and understanding within industry to long-term goals of Government in its technological policy on one hand and on another to acquaint and inform business community that measures taken by the Government are in favour of the industry.

It should be also envisaged on a long term that once industry will reach a level of self-dependancy, the existing regulating and controlling measures will most probably be not any more needed.

ANNEX I

DEFINITIONS

Patent Licence

- (a) For a specific process equipment or for the manufacture of products.
 This could be lade a specific type of equipment whose essential element is patiented; or it could also up the refinement of a process, which makes an existing product more salable.
- (b) For a specific process or method of manufacture such as a metal finishing process to achieve a more functional surface quality; or it could also include a method of a more economical way to cutain a certain method of material.
- (c) For the combination of (1) and (2) which usually results in obtaining a more complete and marketable product.

Know-how Agreements

- (a) These agreements would usually cover a specific information on formulas, processes and industrial techniques. This type of proprietary know-how could range from a secretly held chemical formula to a special manufacturing technique that has been developed by the licensor.
- (b) It could also be used in connection with licenses covering patent rights. This type of agreement is sometimes referred to as "Licence" contracts, which am also cover a licence and/or engineering fee (know-how fee), a process royalty (normally payable on continuing bases) and the terms and conditions related to these items.

Technical Assistance Agreements

- (a) These agreements could include the continuing supply (during the life of the agreement) of scientific assistance to the licencee; technical services as well as training and management assistance.
- (b) These agreements are usually embodied in licenses, which involve the transfer of know-how.

Grademark Licenses

These cover certain registered and well known proprietary identification and can be entered into with or without patent licenced and know-how agreements. This type of licences can also be handled in documents separate from those covering patents and know-how.

AANEK I (cont'd)

Exclusive Licences

This is a concent a der which all rights (except legal title) are transfered to one licences for a given territory to manufacture, use analor sell a product.

Sub-1 conce.

Is the right actuired by a licencee to grant such a licence to a third part.

The right to sub-license a given technology asquired from abroad hold be hold on all to the present and future activities of enter-crises in the quadrate it would enable then to establish similar indistingulantivities in the country once this technology has been secressfully amplemented and proven to be a successful light is indure.

Found i e

Pranchile means ϵ contract on agreement between two or more persons by which :

- (a) a franchisee is granted the right to engage in the business of effering, selling or distributing goes or services under a marketing plan or system described is substantial part by the franchisches.
- (b) the operation of the franchisee's business presently to such plan or system is substantially associated with the franchisor's trade mark, service mark, trade name, logotype, advertising or other commercial symbol designating the franchisor or its affiliate.

FORMION COVESTIONT ENCOURAGENEUT LAW

Law No : 6224

Approved on January 18, 1954

SUBJECT OF THE LAW

ARTICLE 1- This law shall apply to the foreign capital imported into Turkey and to loans made from abroad by the decision of the Foreign Investment Encouragement Committee and the approval of the Council of Ministers, provided that the enterprise in which the investment shall be made:

- a) will tend to promote the economic development of the country
- b) will operate in a field of activity open to Turkish private enterprises,
- c) will entail to monopoly or a special privilege.

"The Foreign Investment Encouragement Committee", referred to in this Article and established according to Article 8, will hereinafter be referred to as "The Committees".

PUREIGN CAPITAL BASE

ARTICLE 2- For the purpose of the application of this Law, the term "Foreign Capital Base" shall mean the sum of the values assessed and fixed in the manner described hereunder:

- a) The following items imported from abroad for the efficient establishment, expansion or reactivation of an enterprise as envisaged by this Law:
 - 1- Capital in the from of foreign exchange,
- 2- Machinery, equipment, instruments and the like, machinery components spare parts and materials and other necessary goods approved by the Committee,
- 3- Intangible rights such as licenses, patent rights and trade marks and services.
- 4- Profits converted into capital through reinvestment in accordance with Article 3.

b) The experts selected by the Committee will assess the value of the imported capital in the form of goods, services and intangible rights and will astermine whether these are goods and values imported for the purpose of the enterprise appreved by the Committee.

The assessment made by the experts may be reviewed and modified by the Committee.

The assessment shall be made both in the currency of the country of origin and in Turkish currency at the official rate of exchange prevailing at the time of importation.

The right to appeal provided for in Article 8 being reserved, the decision of the Committee with respect to assessment shall be final.

REINVESTMENT OF PROLITS

AFTICLE 3- Of the profits realized by an approved enterprise under the tax laws orce, the net amount accrued to the owners of the foreign capital base may be, by the decision of the Committee, reinvested and added, in whole or in part, to the basic foreign capital or invested in some other enterprise meeting the conditions of Article 1.

TRANSFER OF PROFITS AND CAPITAL STOCK

- ARTICLE 4- a) The following profits and capital stocks are entitled subject to the provisions of paragraph (c) of this Article, to transfer abroad in the currency of the country from which the foreign capital base originated and the prevailing official rate of exchange:
- 1- Of the profits realized after December 31, 1953, as determined by the tax laws in force, such net amounts as accrue to the owners of the foreign capital base.
- 2- The share of the owners of the foreign capital base in the proceeds of the sale, within reasonable prices, of assets in case of partial or total liquidation of an enterprise subject to this law.

- 3- The proceeds of the sale, within reasonable prices, of part or the whole of the foreign capital base of an enterprise established or in operation in accordance with this law.
- 4- The principal of and interest on a foreign loan contracted according to the provise as of Article 6 of this law, when due under the terms of the Loan Appropriate.
- b) The ministry of Finance or the Committee may, if they deem it necessary, order:
- 1- The inspection of the books of account and tax returns of the enterprise subject to this law, in order to determine the amount transferable in accordance with subparagraph 1 of paragraph (a) of this Article, or
- 2- Investigation of the bona fide nature of sales shares and assets and of loans to an prived enterprise.
- c) The Ministry of Finance shall issue upon application the requisite permit for the transfer abroad of profits, sales proceeds or the principal of and incorport on loans that are eligible for transfer under paragraph (a) of this Article.

TRANSFERS OF SHARES

ARTICLE 5- a) The Ministry of Finance shall execute, upon request, the fellowing guarantees upon stock shares or stock certificates, registered on the books of a Turkish corporation, that represent the foreign capital base as defined in Article 2.

into (Foreign exchange of origin) at the official rate of exchange prevailing at the date of transfer, on presentation of this stock share of stock certificate to the Central Bank of the Republic of Turkey or its authorized representatives abroad. The proceeds of the sale of this stock share or stock certificate or that part of the proceeds of the realized value of the assets sold in liquidation, to which the owner of this stock share or stock certificate is entitled, are transferable at

the official rate of exchange prevailing at the date of transfer, into
 (Foreign exchange of origin) in accordance with Article 4 of Law No:
 6224 of the Republic of Turkey.

Minister of Finance
or
his authorized deputy"

b) Registered stock shares or stock certificates bearing such guarantees shall be freely transferable to tween persons of all nationalities both in Turkey and abroad. Before the sale of such stock shares or stock certificates to present them to the Ministry of Finance for the cancellation of such guarantees whether or not new stock shares or stock certificates are issued to replace them.

GUARANTEE OF LOANS

- ARTICLE 6- a) The Ministry of Finance is authorised, subject to decision of the Council of Ministers, to provide its quarantee, againts security or bail, for an amount not exceeding 1 billion Turkish liras, of the principal of and interest on a foreign loan to an enterprise fulfilling the requirements of Article 1 of this Law.
- b) Such guarantee shall auttomatically lapse with respect to any part of the principal or interest of a loan so guaranteed that has been repaid.

EMPLOY: ENT OF ALIENS

ARTICLE 7- a) The conditions and prohibitions of Laws No: 2007 and 2818 shall not apply, during the periods of surveyign, creation and operation of an enterprise established in accordance with this Law, to alien investing in such enterprises, to alien representatives of such

investors and to alien experts, foremen and other skilled personnel for such period of time as the Committee certifies is necessary to the efficient establishm at expansion, reactivation or operation of such enterprises.

- b) The above provisions shall also apply to alien experts, foremen and other shilled personnel employed by such domestic enterprises as do, in the opinion of the Committee, meet the conditions set forth in Article 1 of this Law.
- ay, subject to the prior consent of the limistry of Finance, transfer in the currency of their own respective countries and at the prevailing official exchange rates, that part of their earnings as are stipulated in their respective contract of employment, for the maintenance of their dependents and for their normal savings.

FORKIGN INVESTIGAT ENCOURAGEMENT COMMITTEE

ARTICLE 8- a) In order to carry out the duties provided for by this Law, a Committee is formed under the chairmanship of the General Manager of the Central Bank of the Turkish Republic and consisting of the following members: the Director General of the Treasury, the Director General of Domestic Trade, the Director General of Industrial Affairs, the Chairman of the Board of Research and Flanning of the Ministry of State Enterprises, and the Secretary General of the Union of Chambers of Commerce, Industry and Commodity Exchanges. In cases where it finds it necessary, this Committee may ask for the opinion, on an advisory basis, of representatives of other Ministries and institutions. The Committee shall give its decision on any application within 15 days, at the latest, of their submittals.

The Director General of Domestic Trade will act as Secretary General of Committee. If necessary, the Committee may be called to a meeting by the Secretary General.

The remuneration to be paid to the Chairman and members of the Committee, will be fixed by the Jouncil of Ministers.

b) Any decision of the Committee may be applieded by the parties concerned within 30 days as from the date of the notification thereof. The competent authority to deal with much appeals is conscituted by the Ministers of Linance Book my and Commerce and Ltate Enterprises. The decisions of this authority are final.

ARTICLE 9- a) The limistry of Economy and Commerce shall have the authority to order releast from the custody of the customs of foreign capital imported in kind according to the decision of the Committee.

EQUAL THEATHAND OF DOMESTIC AND FOREIGN CAPITAL

ARTICLE 10- All rights, immunities and facilities granted to domestic capital and enterprises shall be available, on equal terms, to foreign capital and enterprises engaged in the same fields.

ARTICLE 11- a) All rights granted to the investors under Article 31 of Decree No 13 issued by authority of Law No 1567 and under Laws No 5533 and the 5821 are hereby preserved.

b) Investments Hade under Law No.5821, between August 1 st, 1951 and the date on which this eaters into force, shall benefit from the provisions of this law.

REPEAL OF TORIER LAT



ARTICLE 12- Law Fo: 5821 is hereby repealed.

EFFECTIVE DATE

AMTICLE 13- This Law shall be effective from the date of it promulgation.

ARTICLE 14- The Council of Ministers is changed with the enforcement of this Law.

Note:

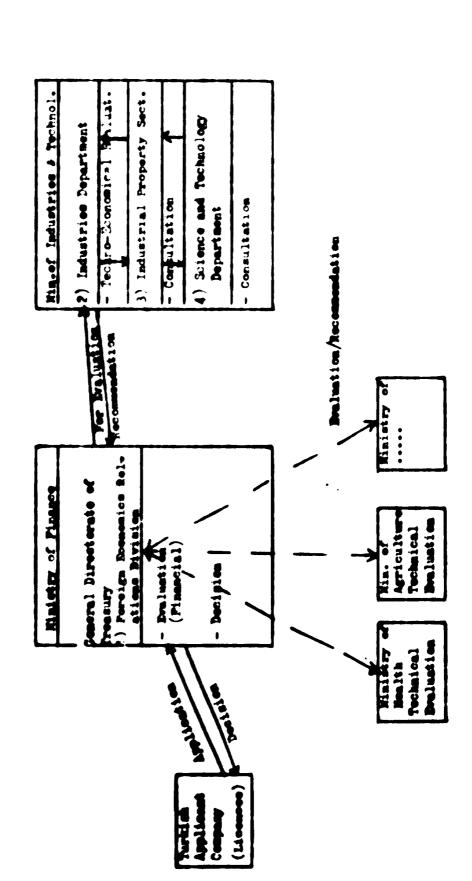
The change which has been made in the Law No: 6224 by the law No: 933

Article 6- The Committee which was formed by article 8-(a) of the Foreign Investment Encouragement Law-No: 6224 and dated January 18, 1954 is hereby abolished.

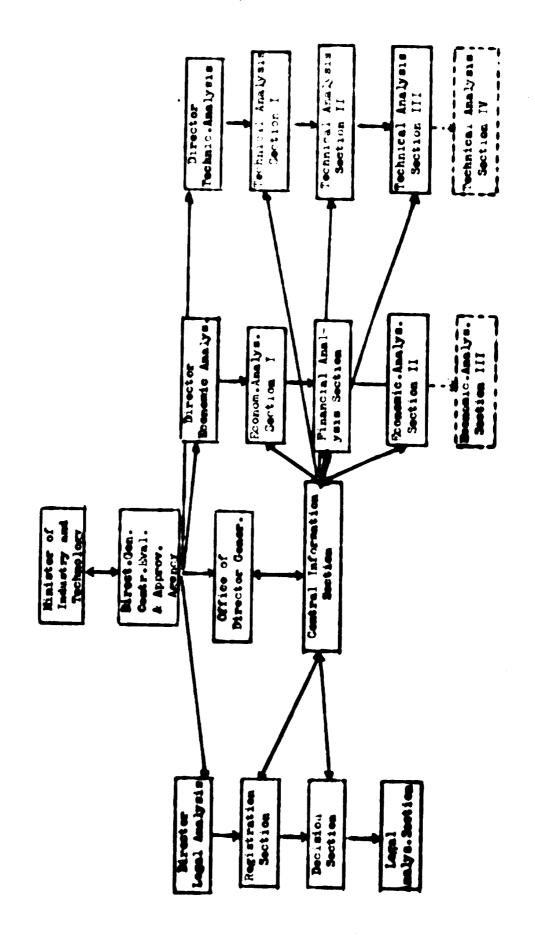
The duties which have been given to the referred Committee are to be confirmed by the State Flamming Organization.

The final authority which is referred in the converned Law is the High Council of Planning.

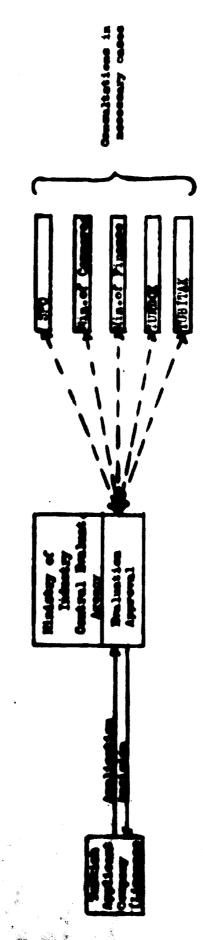
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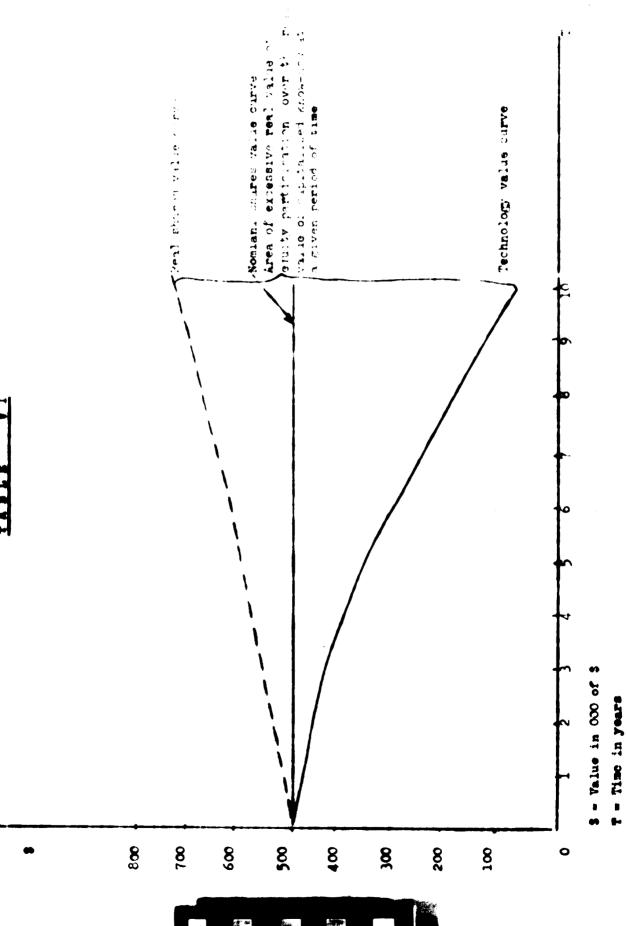
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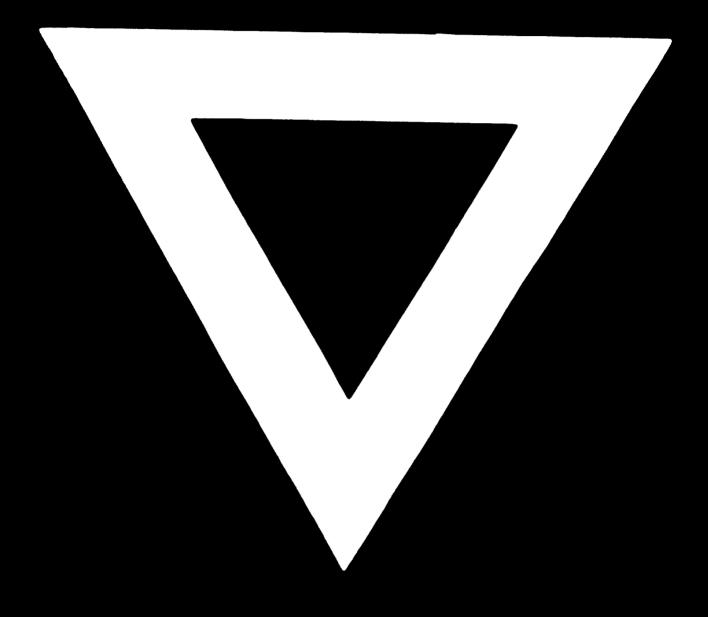


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