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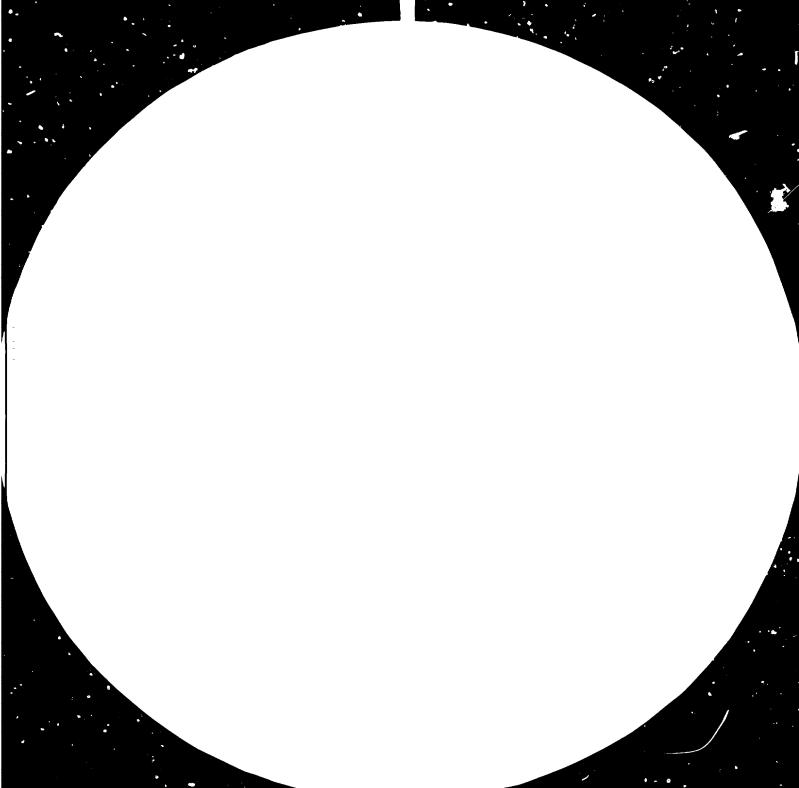
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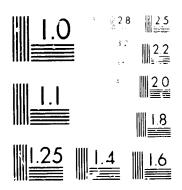
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UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

Distr. LIMITED UNIDO/FC.28 11 December 1981 ENGLISH

REPORT *

OF THE HIGH-LEVEL EXPERT GROUP NEETING

to consider proposed project on the establishment of

THE INTERNATIONAL CENTRE FOR THE PROMOTION OF AGRICULTURAL MACRIMERY INDUSTRY IN THE DEVELOPING COUNTRIES

to be located at Beijing, People's Republic of China

Vienna, Austria, 7 - 8 December 1981

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LETTER OF TRANSMITTAL

To:

Dr. A. Khane

Executive Director

United Nations Industrial Development Organization

Vierna

Subject: International Centre for the Promotion of Agricultural Machinery Industry in Developing Countries, recommended to be established in Beijing, People's Republic of China/Letter of transmittal of the High-Level Expert Group which met on 7 and 8 December 1981 in Vienna

- We have the honour to submit to you the enclosed report on the discussions .1. and conclusions of the above Meeting, fully endorsed by us.
- The High-Level Expert Group met in Vienna on 7 and 8 December 1981, to consider the Revised Draft Project Document on the proposed International Centre for the Promotion of Agricultur, 1 Machinery Industry in Developing Countries, recommended to be established in Beijing.
- We have discussed the need and justification for the establishment of the Centre and made certain recommendations concerning its interlinkage with existing institutions and the programme components for its effectiveness.
- We are of the strong opinion and full agreement that the establishment of the ICAM is a priority subject requiring immediate attention and supposert by UNDP and UNIDO. The urgent needs are summarized as follows:
 - To increase agriculture and food production targets of developing countries through local development, manufacture, and application of appropriate industrial inputs for agricultural development.
 - To promote co-operation among developing countries on the basis of self-help and an exchange of experiences, know-how and technical assistance between the more and the less developed of the Third World countries in applied engineering research, development and design adaptation, and manufacture of agricultural machinery and implements.
 - To stimulate contact among manufacturers of developing countries and between those of the developing countries and industrialized countiles thus serving as a base for and incentive to investment and manufacturing promotion.
- The development objective and immediate objective highlighted in the project reflect the actual need of the developing countries.

- We have examined the Revised Draft Project Document dated 21 September 1981 which we fully support. We have introduced modifications in its programme component to bring it more in conformity with the requirements of developing countries. In this context, we are happy to note that the technical concepts, the workplan, activities and project inputs will make a significant contribution to meeting the needs of developing countries.
- 7. We would like to stress that the proposed project emphasizes a programme network concept, and the term "Centre" reflects a dynamic forum for fostering agricultural machinery industry development with emphasis on TCDC and twinning of institutional and manufacturing capabilities between industrialized and developing countries.
- 8. Regarding the project budget, the People's Republic of China has consented to host this Centre and offered to contribute a very significant suppose the UNDP contribution has been confirmed.
- 9. We request you kindly to convey our recommendations to UNDP together with the endorsed Project Document for their favourable consideration o this very important project and allocation of appropriate finances. In this context we strongly believe that during 1982-1983 a preparatory phase under UNDP or UNIDO finances is necessary. For this purpose we strongly recommend a joint UNDP-People's Republic of China-UNIDO discussion at an early date to work out the modalities of start-up and implementation.
- 10. We would be pleased to be of further assistance to you from a technical point of view in your endeavour to achieve the objectives.
- 11. We are grateful for your kind invitation to us to contribute in a modest way to the realization of this very important project.

Thanking you,

M. Rendeni
Chairman

Vice-Chairman

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Director General of Industrial Activities, Ministry of Industry ALGERIA

<u>Director of Agricultural Engineering</u>, Klöckner-Aumboldt-Deutz AG F.R.G.

Vice Chairman, Commission of Science and Technology Director, Bureau of Science and Technology, Ministry of Agricultural Machinery PEOPLE'S REPUBLIC OF CHINA

RECOMMENDATIONS

The Highlevel Expert Group, after reviewing the draft project document entitled "International Centre for the Promotion of Agricultural Machinery Industry in Developing Countries" dated 21 September 1981, the background document and after detailed discussions, is making the following recommendations:

- 1. The Expert Grap strongly recommends the establishment of the International Centre for the Promotion of Agricultural Machinery Industry in Developing Countries to be located in Beijing, Peiople's Republic of China.
 - 2. The Expert Group amended the Second Draft Project Document dated 21 September 1981 and fully endorsed and approved the Third Draft Project Document dated 8 December 1981 which incorporates all the amendments recommended by the Expert Group.
 - 3. The Expert Group Meeting highly recommends the approval of the project in total by UNDP Governing Council Meeting in June 1982 within the framework of UNDP Global and Interregional IPF Finances 1982-1986.
 - 4. With appreciation of the commitment of the People's Republic of China for support and it's willingness to further elaborate it's inputs after UNDP has approved the project, the Expert Group requests UNIDO and UNDP to take the necessary action to secure the concurrance of the Government of People's Republic of China on the Project Document with reference to their inputs as the host country.

- 5. The Expert Group highly recommends a start-up preparatory phase during 1982 within UNDP finances. In this context the Expert Group Meeting requests the Executive Director to initiate preparatory action phase through UNIDF on a parallel basis in case of any unforeseen delays in UNDP's approval of preliminary action phase.
- 6. The Expert Group wishes to make it very clear that the preparatory phase is an integral part in the total project "International Centre for the Proposition of Agricultural Machinery Industry in Developing Countries".
- 7. The preparatory assistance phase should work at establishing a work programme and modalities of early initiation of the Centre.

 In this context the work programme may include the following activities:
 - Establishment of institutional interlinkage with regional and national institutions and organizations within and outside the U.N. System.
 - Initiation of support and interlinkage with international manufacturers and manufacturer's associations.
 - Initiation of entirities on mobilization of finances from donor countries on a complementary or supplementary basis in addition to UNDP finances.
 - elaboration of the work programme
- 8. Such a trogramme may require services of a Senior International Expert, 2-3 counterpart experts from the People's Republic of Chira. The activities may include specific Expert Group Meetings to establish interlinkages with existing institutions. The preparatory assistance phase should result in all actions necessary to establish the International Centre at an early date.

I. INTRODUCTION

A. ORGANIZATION OF THE MEETING

Opening of the Meeting

The High Level Expert Group Meeting is convened on the 7 and 8 December 1981 in Vienna to consider the proposed project on the establishment of the international centre for the promotion of agricultural machinery industry in the developing countries, recommended to be located in Beijing, People's Republic of China. 15 experts from countries have participated in the meeting (Annex 1: list of participants).

The meeting was opened by Mr. A. Hacini, Head of Negotiations Branch, UNIDO, who coressed on the need of local adaptation and production of agricultural machinery through co-operation among developing countries and that to meet this need the international centre was proposed by the participants of the Meeting on the Exchange of Experiences and Co-operation among Developing Countries in the Development of Agricultural Machinery Industry, held in Beijing, People's Republic of China.

Election of Officers

Mr. Ramdani (Algeria) was elected Chairmar.

The following two Vice-Chairmen were elected:

Mr. A. Gego (Germany F.R.)

Mr. Chen Nailong (P.R. of China)

3. ADOPTION OF THE AGENDA

The following agenda was adopted:

- 1. Opening Statement by Mr. A. Hacini
- 2. Election of Chairman and two Vice-Chairmen
- 3. Review of the Present Status of the Proposal and Action taken towards Implementation of the Project/Financial Constraints
- 4. Background to the Proposal of Establishing the International Centre
- 5. The Need and Justification for the Establishment of the International Centre
- 6. Statement by the Representative of the People's Republic of China
- ". Review of the Programme Components of the proposed International Centre
 - Exchange of experience and promotion of techno-economic discussions
 - Promotion of co-operative Applied Engineering
 Research and Development
 - Information Dissemination/Preparation of Industrial Profiles
 - Manufacturing Promotion
 - Technical Training
- 8. Consideration of the Revised Draft Project Document

- Modalities on Start-up of Froject and Recommendations of Preparatory Phase and Follow-up Action
- 10. Any other matter
- 11. Approval of the Poport of the Meeting.

C. OBJECTIVES OF THE MEETING

The Meeting has as its objectives to examine the need and justification for the establishment of the proposed International Centre, to review its programme components and financial implications for the establishment of the International Centre, and to make appropriate recommendations to UNIDO and UNDP.

D. BACKGROUND INFORMATION

Since 1976 the System of Consultations has been established as a new activity of UNIDO. Its main objective is to facilitate, stimulate and mobilize a North-South dialogue in industrial sectors, which would lead to the elaboration of new forms of international collaboration. The agricultural machinery industry is one of a group of four agriculture-related sectors in which UNIDO convened a series of Consultation Meetings: the Fertilizer Industry, the Leather and Leather Products Industry, the Vegetable Oils and Fats Industry, and the Food-Processing Industry.

The First Consultation on the Agricultural Machinery Industry, held by UNIDO in Stresa, Italy, in October 1979, was attended by 172 participants from 56 countries and 13 international organizations. It considered a wide range of issues from the basic facilities required in 'eveloping countries for the production of the most simple to the most sophisticated agricultural tools and machinery. The Consultation

also attempted to formulate a strategy for the agricultural machinery industry in developing countries. One of the pillars of this strategy is the necessity to launch a programme of co-operation among developing countries in the agricultural machinery sector. It was falt that developing countries at different levels of the agricultural machinery development could benefit from an exchange of experience to avoid duplication in research, design and in the application of appropriate technology; they could further explore technical co-operation schemes in which the more advanced of the developing countries would share their experience with the less advanced countries, particularly as regards the manufacture of simple hand-tools and implements, animaldrawn equipment, repair and maintenance activities. The establishment of strong co-operation links among developing countries and rationalization of their production goals in the agricultural machinery sector, would lead to greater awareness of the industrialized countries to the specific and varied product requirements of the developing countries, with a resulting crientation of product design to suit the local conditions in the developing countries.

The People's Republic of China had always expressed a keen interest in achieving the strategy of co-operation among developing countries in the agricultural machinery sector, where it hade made significant advances on the basis of self-reliance and adapted technology. It was therefore a welcome development as a follow-up to the First Consultation on the Agricultural Machinery Industry, when the People's Republic of China offered to host the Meeting on Exchange of Experiences and Co-operation among Developing Countries in the Development of Agricultural Machinery Industry, which was held in Beijing, in October 1980.

Attended by high-level participants from 35 courtries (of which 29 from developing countries), the Meeting decided to recommend a strategy for economic co-operation in the agricultural machinery sector which would give priority to the following areas:

- Preparation of industrial engineering/technological profiles and information dissemination;
- Exchange of experience and promotion of technoeconomic discussions;
- Promotion of co-operative applied engineering research and development;
- Menufacturing promotion;
- Technical traiting programmes.

The Meeting unanimously recommended that a Centre for the Promotion of Agricultural Machinery Industry in Developing Countries should be set up in Beijing, People's Republic of China. The Government of the People's Republic of China has offered to host facilities for the proposed Centre in Beijing.

The Draft Project Document was prepared by the UNIDO secretariat in November 1980 and was submitted to UNDP. UNDP, while agreeing with the development objectives of the proposed International Centre and assigning considerable importance to the provision of industrial inputs to agricultural development through, inter alia, local development, manufacture and application of appropriate agricultural machinery, implements and tools, have sought certain clarifications. UNIDO had given the necessary clarifications on the observations.

The Government of the People's Republic of China has communicated to the Resident Reprisentative of UNDP in Beijing their strong endorsement of hosting the Centre and their willingness to contribute in setting up the International Centre in Beijing once UNDP's contribution has been confirmed.

Subsequently, in a joint review exercise between UNIDO and the representatives of the People's Republic of China, during September 1981, the project document was revised (second draft) which is considered at present in the High-Level Expert Group Meeting.

E. STATUS OF THE PROJECT: STATEMENT BY THE SECRETARIAT

The Secretariat, in introducing the subject, reviewed the background and the present status of the proposal of establishing the International Centre. The Secretariat stated that the primary objective for the establishment of an International Centre was to promote a focal point which can catalyse actions that would lead to engineering adaptation and development of local manufacturing capabilites of appropriate agricultural machinery and implements. The Global Programme of UNDP-CGIAR, except at IRRI, have programmes essentially dealing with agricultural aspects with only a modest component in the promotion of local manufacture. The Regional Network for Agric Itural Machinery in Asia and Pacific has concentrated mostly on information exchange and an evaluation revealed that the weakest link had been the lack of engineering capabilities at the national level. Other regional and sub-regional centres do not effectively cover the manufacturing element.

The Secretariat highlighted that the proposed centre would seek to provide the most important aspect of local manufacturing promotion without duplicating the activities of the existing institutions. The Secretariat also pointed out that the emphasis was on economic co-operation among developing countries and the global nature of the Centre.

The Secretariat informed the Group about the observations made by the UNDP concerning the proposal, namely:

- a) the International Centre might evolve into a national centre and not acquire a global and interregional complexion
- b) whether it would endeavour to centralize activities which whould more appropriately be country specific, and
- c) whether would it not be more cost-effective to develop twining between the various regional and country projects and through other forms of TEDC arrangements, instead of establishing an international centre.

The Secretariat also informed the Group on the response given by UNIDO that:

- a) the project is of a global nature with a heavy emphasis on economic and technical co-operation between developing countries
- t) the proposal airs at assisting country level activities with integrated actions from an international platform and
- c) that the existing regional project is assentially criented to information dissemination and mechanization of agriculture in certain areas and does not cover the actual manufacture.

 Most national programmes of UNDP are only in the field of agricultural mechanization with no provision for effective transformation of the results into local manufacture.

Neither the national endeavours nor the endeavours made at the regional level can really fulfill the targets and objectives which are visualized in this project. Thus, there is a need to establish an international mechanism to assist and guide the developing countries in this area with well defined programmes as detailed in the project.

II. HIGHLIGHTS OF DISCUSSIONS

A. The Need and Justification for the Establishment of the International Centre and it's Interlinkage with Existing Institutions

The Group was of the unanimous view that the establishment of such a Centre would be a major help to the developing countries in promoting their agricultural equipment manufacturing capabilities. It's location in Beijing, People's Republic of China, was particularly welcomed in view of the availablity of China's large experience in development/adaptation of equipment suitable to local conditions for a wide variety of crops, soil and climatic conditions and it's wide variety of manufacturing facilities from simple rural workshops to large integrated plants. A further factor was the interest and the response shown by the People's Republic of China in hosting the Centre and it's willingness to undertake the corresponding financial commitments.

In the development of Specific Programmes of the Centre, the Group was of the opinion that the consideration should be paid to the work being done and the experience available with the existing International, Regional and National Institutions, so that unnecessary duplication could be avoided as far as possible. In this context the Expert Group appreciated the contributions by various institutions of CGIAR including IRRI and by Regional Project ENAM in the agricultural machinery field and recommended that the Centre should establish appropriate interlinks. The Group discussed at length the experience available with the existing Institutions and was of the view that it was mostly oriented towards testing and field adaptation rather than towards promotion of physical manufacturing activities. Consequently, the establishment of a Centre with the specific objective of helping the developing countries in establishing local production capabilities, would fulfill a major need.

B. Programme Components of the Proposed Project:

The Group discussed in detail the programme components of the proposed project and amended them as given below (reference pages 19 to 22 of Revised Project Document) to enable the centre to be effectively international and the activities in line with the needs of the developing countries.

PROGRAMME A: Preperation of Industrial/Engineering/Technological Profiles and Information Dissemination

- ACTIVITY A-1: (i) A guide on selection of steels and their specifications
 - (ii) Castings
 - (iii) Heat treatment techniques
 - (iv) Other commonly used materials and components
 (subcontract \$100,000): Primarily on category I,
 II and III, agricultural machinery;
- ACTIVITY A-2: Techno-economic information monographs on locally developed/adapted and commercially manufactured without foreign collaboration of selected agricultural machinery such as (i) small tractor, (ii) power tiller, (iii) engines, (iv) pumps, (v) crop protection equipment, (vi) threshers and (vii) seed-fertilizer drills. The equipment may be adapted to the crops and regions (subcontract \$250,000)
- ACTIVITY A-3: Technical Manual on (i) Tractor manufacturing phased model programmes, (ii) model contracts on tractor manufacture, and (iii) basic facilities on foundry, forge shop and heat treatment shops (subcontract \$200,000)
- ACTIVITY A-4: Documentation, publication, distribution and information dissemination on all programmes plus central library. The above activity would draw upon the information available with institutions within UNIDO and other organizations. (Total cost \$400.000)

- Economic Discussions.
- ACTIVITY B-1: Technical seminar on the successes, failures and problems of selected countries in the manufacture, distribution and servicing of tractors and other selected agricultural equipment. This seminar should be preceded by country/subregional studies of experiences most relevant to other developing countries (20 developing countries, 10 days, 40 participants, \$175,000)
- ACTIVITY B-2: Expert Group Meeting on adaptation, rationalization of specifications, for local production and application of existing simple small tractors/power tillers and engines (around 15 developing countries, 10 days, 30 participants, \$100,000)
- ACTIVITY B-3: Technical workshop on Exchange of Experience in the Organization c.
 - Repair and Maintenance Workshops/Facilities
 - Distribution of Spare Parts
 (20 participants, \$100,000 x 2 = \$200,000)

PROGRAMME C: Promotion of Co-operative Applied Engineering Research and Development

ACCIVITY C-1: Development programme on appropriatly selected agricultural machinery and implements through twining of R + D at Mechanical Engineering, Agricultural Engineering and other relevant Institutions of developing countries and international/regional institutions on a complementary and co-operative basis. The products and modalities of the work programme to be elaborated by an Expert Group.

(Subcontract total cost around \$500,000)

ACTIVITY 3-2: Selected project oriented R + D activities with emphasis on applied design, adaptation and manufacturing technology transfer to be undertaken directly by the International Centre (cost around \$500,000 for equipment)

PROGRAMME D: Manufacturing Promotion

ACTIVITY D-1. Programme of co-operation between small and medium

manufacturers of developing and industrialized

countries: Investment promotion and technology transfer;

The provisional product groups may be (i) simple and

intermediate agricultural implements, (ii) preharvest

machinery including irrigation equipment, (iii) harvest

and postharvest technology equipment. The priority

products to be decided by the Centre. The activities

and organizational aspects to be subcontracted by the

Centre to institutions of selected host developing

countries. 4 meetings/fairs/exhibitions, 20 developing

countries, 10 days, 20 participants (\$100,000 x 4 = 400,000)

PROGRAMME E: Technical Training Programme

ACTIVITY E-1: Group Training: The areas of training may be

(i) agricultural machinery product selection,

(ii) design work, (iii) machine tools selection and

manufacturing techniques, (iv) quality control and

measuring techniques, (v) maintenance, repair

and service network, (vi) market survey techniques.

Each programme to be organized in selected host institutions

of developing/industrialized countries. The training

areas mentioned above are not necessarily exhaustive.

The details of training areas and organizational aspects

to be decided by the Centre. (Total training 40 mm at

a total cost \$40,000 x 4 = \$160,000)

ACTIVITY E-2: Individual fellowships in selected fields. Total 40 mm at total cost \$ 160,000. The details on duration, number of fellowships, areas and placement to be decided by the Centre, based on the specific requests of the developing countries.

ACTIVITY E-3: Programme development in training: Assistance to the host institutions: provision/equipment/visual aids, etc. for activity E-1; total cost \$ 50,000 x 4 = \$ 200,000 plus equipment such as training aids, computer, video, etc. to the International Centre for organizing training activities \$ 500,000. The identification and selection of host focal institutions in different regions, the work programme, the specification and details of hardware and software, the provision of technical manpower both at the Centre and respective host institutions will be worked out by the Centre.

C. Project Document

The Expert Group concurred with all other elements of the Second Draft Project Document dated September 1981 and fully endorsed and approved the Third Draft Project Document dated 8 December 1981, which incorporates all the amendments recommended by the Expert Group.

LIST OF PARTICIPANTS

HIGH LEVEL EXPERT GROUP MEETING ON THE ESTABLISHMENT OF AN INTERNATIONAL CENTRE FOR PROMOTION OF AGRICULTURAL MACHINERY INDUSTRY IN DEVELOPING COUNTRIES TO BE LOCATED IN BEIJING,

7 - 8 DECEMBER 1981. VIENNA

1. Algeria

Mr. Mohamed Ramdani Directeur général des activités Industrielles Ministère de l'Industrie Lourde Alger

2. Algeria

Mr. Ismail Seghir Ministère de l'Industrie Lourde Alger

3. Argentina

Mr. Martinez De Vediz Adviser to the Minister of Industry Buenos Aires

4. Argentina

Mr. Oscar Suarez Irigoven Agricultural Machinery Development Committee Buenos Aires

5. China P.R.

Mr. Chen Nailong Vice Chairman, Commission of Science and Technology; Director, Bureau of Science and Technology, Ministry of Agricultural Machinery Beiling 6. Thine P.R.

Mr. Tang Youzhang Vice-President of Chinese Society of Agr. Machinery Director of Foreign Affairs Burcau Ninistry of Agr. Machinery Beijing

7. China P.R.

Mr. Wang Wanjun Vice Director of China Academy of Agr. Mechanization Science, Vice-Chairman of China Society of Agr. Machinery, Beijing

8. Germany F.R.

Mr. Arno Gego
Director of Agr. Engineering
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Cologne

9. India

Mr. Chandra Mohan Managing Director Punjab Tractors Ltd Chandigash

10. Netherlands

Mr. A. Moens Professor, Faculty of Agronomics Wageningen

11. Norway

Mr. Erik Sunde The Export Council of Norway Sandnes

12. Tanzania U.R.

Mr. Felix K. Mujemula Officer-in-Charge Tanzania Agr. Machinery Testing Unit (TAKTU) Arusha

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Mr. D.C. Kemp Head, Equipment Development Section National Institute of Agr. Engineering Bedford

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2. Mr. M. Delos Acting Head, Engineering Industries
Section, Division of Industrial Operations

3. Mr. R.A. Lavrov Team Leader, Negotiations Branch, D.P.C.

4. Mr. P. Manoranjan Industrial Development Officer, Negotiations Branch, D.P.C.

75. Mr. H.K. Rahim Officer-in-Charge of Project, Negotiations Branch, D.P.C.

6. Mr. Z. Song Officer-in-Charge, Section for Economic Co-operation among Developing Countries, D.P.C.

7. Mr. A.A. Swamy-Rao Senior Interregional Adviser, Engineering Industries Section, D.I.O.

8. Mr. N.N. Tandon Head, Programme Development and Evaluation Branch, D.P.C.

Annex 2

AGENDA

HIGH LEVEL EXPERT GROUP MEETING

Vienna, 7 and 8 December 1981

TO CONSIDER THE PROPOSED PROJECT ON THE ESTABLISHMENT
OF INTERNATIONAL CENTRE FOR PROMOTICN OF AGRICULTURAL
MACHINERY INDUSTRY IN DEVELOPING COUNTRIES TO BE LOCATED IN
BEIJING

- 7 Dec. 1981 9.30 Registration of members of Expert Group, Ground Floor, Building C, Vienna International Centre
 - 10.00 Session in conference room 2, Floor 7, Building C
 - 2.1. Opening Statement by Mr. A. Hacini
 - 2.2. Election of Chairman and two Vice-Chairmen
 - 2.3. Background to the Proposal of Establishing the International Centre
 - 2.4. Review of the Present Status of the Proposal and Action taken towards Implementation of the Project/Financial Constraints
 - 2.5. The Need and Justification for the Establishment of the International Centre
 - 2.6. Statement by the Representative of the Peoples Republic of China

- 14.30 2.7. Review of the Programme Components of the proposed International Centre.
 - Exchange of experience and promotion of techno-economic discussions
 - Promotion of co-operative Applied Engineering Research and Development
 - Information Dissemination/Preparation of Industrial Profiles
 - Manufacturing Promotion
 - Technical Training
- 17.00 Closure of the First Day Session
- 8 Dec. 1981 9.30 2.8. Consideration of the Revised Draft Project Document
 - 2.9. Modalities on Start-up of Project and Recommendations of Preperatory Phase and Follow-up Action
 - 2.10. Any other matter
 - 14.30 2.11. Approval of the Report of the Meeting
 - 2.12. Letter of Transmittal by the Expert Group to the Executive Director of UNIDO and the Administrator of UNDP.
 - 17.00 Closure of the Meeting

