



**TOGETHER**  
*for a sustainable future*

## OCCASION

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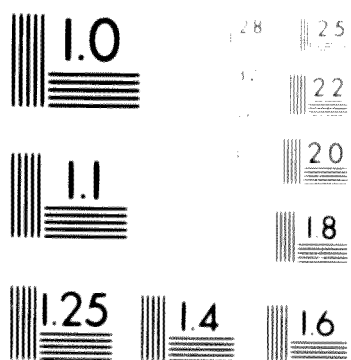
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# 1 OF 1



MEASUREMENT OF RESOLUTION TEST CHART  
NBS 1963-A  
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# 24 x F

PROPOSAL

for

Assistance to the utilization  
of rattan cane in Senegal -  
SF 71/3086 SEN-14

00844

THE NATIONAL INDUSTRIAL DEVELOPMENT  
CORPORATION LIMITED.  
NEW DELHI.

1971

2927

**PROPOSAL**

**for**

**Assistance to the utilization  
of rattan cane in Senegal -  
SF 71/3086 SEN-14**

**\*\*\***

THE NATIONAL INDUSTRIAL DEVELOPMENT CORPORATION LTD

(A Government of India Enterprise)

ENGINEERING AND MANAGEMENT CONSULTANTS

No. OCC/OFF/12/71/

December 3, 1971

By Air Mail

United Nations Industrial Development  
Organisation (UNIDO)  
Chief, Technical Equipment, Procurement  
and Contracting Office (TEPCO)  
P.O. Box 707  
A-1011, Vienna  
Austria.

Sub : Assistance to the utilisation of rattan  
cane in Senegal SF 71/3086 SEN-14

Dear Sirs,

We thank you for your letter No. TP/MM/dn dated 9th November 1971, asking us to submit proposal for rendering services to the Government of Senegal for the utilisation of Rattan Reed in Senegal. We are writing this to say that we shall be most happy to undertake this assignment.

2. We have noted the general guidelines as described in your letter and are pleased to submit herewith our detailed proposal containing background information about our organisation, experience, time period needed to complete the assignment and our fees.

3. Our Organisation

The National Industrial Development Corporation (NIDC) was set up by the Government of India in 1954 to assist in the formulation and development of economic programmes and industrial projects. Over the period, the organisation has been rendering the complete range of consultancy services for the planning and establishment of new industrial ventures including expansion and diversification of existing units and is staffed by over 250 professional men including architects, engineers, designers, economists etc., with specialised experience in diverse fields. The organisation has already completed a large number of assignments in diverse fields of engineering and technology including Aluminium, Pulp and Paper, Machine Tools, Foundries, Forges, Steel Melting and Billet Casting, Ore beneficiation, Chemical and other general engineering industries etc. A list of some of the major assignments so far completed by the NIDC is enclosed for reference at Annexure-I. The services of

contd..2

the organisation have been utilised both by the Public and Private Sectors in India and also by the United Nations as well as other overseas organisations and foreign governments.

4. Experience

In this assignment we shall have the association of the Forest Research Institute of India for testing and for evolving processes of treatment of Rattan Reed. The Forest Research Institute of India is one of the best institutes in this field. It has all the necessary facilities of equipment and experienced personnel for such work.

5. Work Plan

We intend to send a two member team to the Project Area. The team leader will be from our Organisation and the other member will be taken from Forest Research Institute of India. The team will be available for starting work in the Project Area two months after signing the contract with UNIDO. During this period, we will get the Rattan Reed tested in the Forest Research Institute and also to evolve the processes for treatment of Rattan Reed. At the conclusion of these tests by the Forest Research Institute, our team will proceed to project area to render services as outlined in para 1.02 of Appendix-I of your letter under reference. Two-member team will spend 3-man months in the Project Area.

6. Scope of our Work

The scope of our work will cover all aspects stipulated in para 1.02 of Appendix-I of your letter. For ready reference, we are reproducing the scope of services from your letter at Annexure-II.

7. Time Schedule of Completion

The assignment will be completed in a maximum period of 6½ months from the date of signing the contract. This period is made of the following :

- |     |  |          |
|-----|--|----------|
| 1)  | Testing and evolving processes of treatment of Rattan Reed | 2 months |
| ii) | Services in Project Area                                   | 2 months |

- iii) Home office services 1 month
- iv) Waiting for UNIDO comments on Draft Final Report 1 month
- v) Submission of Final Report  $\frac{1}{2}$  month

Total (i) to (v): 6 $\frac{1}{2}$  months

8. Remuneration

Our total fees to complete the services mentioned in paragraph 6 above shall be US\$ 18,000 (US Dollars eighteen thousand only). A detailed cost breakdown of our fees as per Appendix-3 of your letter is attached at Annexure-III.

9. We will assign well qualified and experienced personnel on this work. The names of personnel with their detailed curriculum vitae in accordance with Appendix-2 of your letter will be sent shortly.

10. Reports

We will prepare Reports as mentioned in Para-5 of your letter under reference and in accordance with clause 2.09 of the Model Contract, Appendix-4, of your letter.

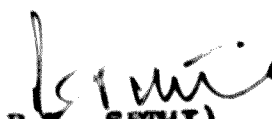
11. Briefing and De-briefing

Our Team Leader shall be available at UNIDO Headquarters, Vienna, for briefing prior to his departure to the project area and for de-briefing upon completion of his work in project area.

12. We will be happy to sign the contract with you based upon the terms and conditions of Appendix-4 of your letter. We intend to take the work in hand as soon as the contract is signed.

Thanking you,

Yours faithfully,

  
(R.K. SETHI)  
MANAGING DIRECTOR

Encl: as above

LIST OF CONSULTANTS AND THEIR OFFICES

STATE CONSULTANTS - STATE CONSULTANTS - STATE CONSULTANTS

STATE CONSULTANTS - STATE CONSULTANTS - STATE CONSULTANTS

- 1. Detailed Engineering for Board Heavy Plate & Vessels Ltd., Visakhapatnam.
- 2. Detailed engineering for Grinding Machine Tools Plant, Agner
- 3. Project Evaluation and Detailed Engineering of Industries Manufacturing Plant, Kotsa.
- 4. Detailed Engineering for Marine Diesel Engine Plant, Ranchi
- 5. Total Consultancy for Pumps & Compressors Project, Allahabad
- 6. Total Consultancy for Gas Cylinders Project, Allahabad
- 7. Project Report for manufacture of 20 HP Tractors, Madhya Pradesh Machine Tools, Bijnore
- 8. Detailed engineering for Central Machine Shop of Bihar Gold Mining Undertaking, Kolar
- 9. Project Report for manufacture of Printing Machinery, Andhra Pradesh.
- 10. Project Report for manufacture of Ball Bearings, Andhra Pradesh.



TYPE OF WORK UNDER CONSIDERATION

11. Project Report for manufacture of Gears, Uttar Pradesh.
12. Project Report for manufacture of Process Control Valves, Andhra Pradesh
13. Project Report for manufacture of steel structurals, Uttar Pradesh
14. Project Report for manufacture of Machine Tool Appliances, Uttar Pradesh
15. Project Report for manufacture of Ball and Roller Bearings, Andhra Pradesh.
16. Project Report for manufacture of Small I.C. Engines & Pumps, Assam.
17. Project Report for manufacture of Agricultural Implements, Assam.
18. Project Report for manufacture of Tools & Gauges, Uttar Pradesh
19. Project Report for a Press Plant, Uttar Pradesh.
20. Project Report for manufacture of Precision Tools, Jammu & Kashmir.
21. Project Report for manufacture of Automobile Ancillaries, Gujarat.
22. Project Report for manufacture of Tractors, Punjab.

TYPE OF CONSULTANCY AREA OF IEP REVISION

SOLUTIONS TO TECHNICAL PROBLEMS  
CONCERNING THE CONSULTANCY

23. Project Report for manufacture of Automobile Ancillaries, Assam.
  24. Project Report for manufacture of Automobile Ancillaries, Uttar Pradesh
  25. Project Report for manufacture of Special Purpose Machine Tools, Uttar Pradesh
  26. Project Report for manufacture of Gears, Andhra Pradesh.
  27. Project Report for manufacture of Rubber Processing Machinery and other types of Machine Tools, Calcutta
  28. Project Report for manufacture of Scooters at Hyderabad Allwyn Works, Hyderabad.
  29. Project Report for manufacture of Agricultural Discs in Punjab.
- (b) Metal Processing (e.g. Foundries, Forge Plants, Re-rolling plants etc.)
1. Project Report for Steel Scrap Melting, Billet Casting and Rolling Facilities Plant, Ludhiana.
  2. Project Report for Steel Scrap Melting, Billet Casting and Rolling Facilities Plant, Calcutta.
  3. Project Report for Cold Rolling Plant for rolling of high carbon and alloy steel strips, Calcutta.
  4. Project Report for manufacture of Dead Axle Forgings for Shaktiman Vehicles.



1. Project Report for Paper Plant in Assam.
2. Project Report for Paper Plant in Tripura
3. Project Report for Newsprint Project, Jammu & Kashmir.
4. Project Report for Rayon Grade Pulp Plant, Jammu & Kashmir.
5. Project Report for Bagasse based pulp and Newsprint Project, Bihar & Uttar Pradesh.
6. Total Consultancy for Megaland Paper and Pulp Project (Under finalisation)
7. Project Report for Pulp Plant in Madhya Pradesh
8. Project Report for 10 tonnes/day Paper Plant, Jammu & Kashmir.
9. Project Report for Paper Plant in Manipur
10. Detailed Project Report for Pulp and Paper plant in Assam.
11. Detailed Project Report for Newsprint Mill in Kerala.

3. ALUMINA UNIT

1. Detailed Project Report for Korba Alumina Plant, Madhya Pradesh.
2. Detailed engineering for Korba Alumina Plant, Madhya Pradesh.
3. Detailed Project Report for Korba-Skelter and Purification Complex, Madhya Pradesh.

TYPE OF CONSULTANCY AREA OF APPLICATION

SOME MAJOR ASSIGNMENTS COMPLETED AND CONTINUING

4. Feasibility Study for Koyna Aluminium Complex, Maharashtra.
5. Detailed Project Report for Koyna Aluminium Complex, Maharashtra.
6. Project Report for Export Oriented Alumina Plant, Gujarat
7. Study on Advance Planning for Aluminium in India.
8. Preliminary Project Report for Aluminium Foils Project, General Industrial Society Ltd., Calcutta.
9. Study on technical suitability of Konkani Bauxites for production of Alumina in Maharashtra.

4. ONE BENEFICIATION AND HANDLING

Total Consultancy for Crushing, Screening, transportation etc. of iron ore from Bailadila Deposit No. 5, Madhya Pradesh.

5. FOREST BASED INDUSTRIES (Plywood, Particle Board etc.)

1. Project Report for Particle Board Plant, Jammu and Kashmir.
2. Rehabilitation of Plywood Plant, Jammu & Kashmir
3. Project Report for Card/Straw Board Plant in Tripura.
4. Project Report for card board plant in Assam.
5. Project Report for manufacture of Particle Board from jute sticks in Bihar.

CONFIDENTIAL

- 6. Project Report for the Manufacture of ...
- 7. Project Report for the Manufacture of ...

6. Chemical Industries

(a) Basic Chemicals

- 1. Project Report for ... Plant, ...
- 2. Project Report for ... Plant, ...
- 3. Detailed engineering for ...

(b) Chemical Industries  
(1000)

- 1. Total capacity for Alcohols plant, ...
- 2. Total capacity for ... and Turpentine plant, ...
- 3. Project Report for manufacture of Pesticides in Uttar Pradesh.
- 4. Project Report for manufacture of Pesticides in Assam.
- 5. Project Report for manufacture of Refined Salt in Gujarat.
- 6. Project Report for Calcium Carbide Plant, Uttar Pradesh.

1953  
1954  
1955

7. Project Report submitted to Papan Project D.
8. Project Report for IIT Patna, New Delhi
9. Project Report for Synthetic Detergent
10. Project Report for Lime Incapitated, Channa, Bihar, India in Dandakanya.

(c) Pharmaceuticals

1. Detailed report for Antibiotic Plant at Patna
2. Detailed report for Synthetic Detergent Plant at Patna

7. FOOD ENGINEERING

1. Project Report for Food Products and Food Processing in Dandakanya
2. Project Report for manufacture of Infant Milk Food
3. Project Report for Oil Mills in Dandakanya

8. OTHER INDUSTRIES

1. Project Report for Dead Burnt Magnesite Plant in Bihar
2. Project Report for manufacture of PVC Pipes, Assam
3. Project Report for L.T. Carbonization Plant, Bihar
4. Project Report for Cement Plant in Manipur
5. Project Report for Mica Wet Grinding Plant in Bihar.

... ..  
... ..  
... ..

- 6. Institute for the Study of the ... ..
- 7. ... ..
- 8. Project Report for ... ..
- 9. Project Report for ... ..
- 10. Project Report for ... ..
- 11. Project Report for ... ..
- 12. Project Report for ... ..
- 13. Project Report for ... ..

ECONOMIC CONCIL-  
TECHNICAL SERVICES

- 1. Development of Industrial Programs for ... ..
- 2. Technological Survey of ... ..
- 3. ... ..
- 4. Study and ... ..



2. Demand for:

1. Demand for Iron and Steel in form of Pipes for  
Water Pipes, etc.

2. Buildings & Machinery for heavy Buses, etc.
3. Demand for Incessor Engines, etc.
4. Demand for Tools & Gauges
5. Demand for Electric Machinery
6. Demand for Cranes and Hoists
7. Demand for Industrial Explosives
8. Demand for Automobile Accessories
9. Demand for Scaffolding Pipes
10. Demand for Printing Machinery and allied items.

Evaluation of Project Report for :-

1. Tractor Plant, Ludhiana, U.P.
2. Tube & Compressor Plant, Feroz, Punjab
3. Process Plant for its Manufacturing Plant at 1953.

1. Information Study for Modernization of  
Research Institute.

1. Information Study for Modernization of  
Research Institute.

2. Modernization study for Machine and Allied  
Technology Center, etc., Research.

3. Modernization of Facilities of IIS Council,  
Lahore, etc.

4. Modernization studies for Facilities of  
Nurul Deen Center, Lahore.

5. Modernization study for Adorn Paper Mills  
in Faisal.

6. Rehabilitation Plan for Terylene Plant at  
Balli Bazar, Rawalpindi.

7. Modernization study for Cottons Plant  
at Kotla in Faisal & Kashmir.

8. Modernization study for Fruit Preservation  
Units at Rawalpindi, Multan and Dera Ghokri,  
U.P.

Study to Define appropriate norms for Mill Work-  
shops, Ministry of Labour.

Development of proper procedures for Forest  
Jobs & Classification, A.I.C. B.C.

Development of Operational Plan, Project plan-  
ning and Control for Forest Camps and  
Shelters and etc., etc., etc.

2. ~~INDIA - INFORMATION~~

3. ~~INDIA - INFORMATION~~

4. ~~INDIA - INFORMATION~~

TABLE C. CONSTRUCTION AND DEVELOPMENT

CONSTRUCTION AND DEVELOPMENT

CIVIC DEVELOPMENT

1. Industrial Township of Hindustan Organic Chemicals Ltd., Indurashtra.
2. Industrial Township of Machine Tool Corp. Ltd., Ajmer
3. Industrial Township of Instrumentation Ltd., Kota
4. Industrial Township of Fertilizer Corp of India, Gorakhpur.

LIST OF MAJOR FOREIGN ASSIGNMENTS UNDERTAKEN BY UNIDO

CLIENT

ASSIGNMENT

- |  |  |
|--|--|
| Industrial Development and Renovation Organisation, Iran | 1. Assistance in setting up and developing a Consultancy Organisation to offer Industrial and Economic Consultancy Services. |
|  | 2. Project Evaluation for Zinc and Lead smelter in Iran  |
|  | 3. Project Evaluation for Wood Complex in Iran   |
|  | 4. Diversification programme for Arak Machine Building Plant, Iran.  |
| Technolog Inc., Iran                                     | 1. Design of Wood Complex, Neka, Iran.   |
|  | 2. Evaluation of development scheme for Bandar Abbas Area, Iran.   |
|  | 3. Evaluation of proposals for Automotive Foundry, Tractor Plant, Iran.  |
|  | 4. Evaluation of proposals for Steel Foundry, Arak Machine Building Plant, Iran  |
|  | 5. Planning and design of Industrial Estate, Tabriz.   |
| United Nations   | 1. Scrutiny of Project Report for Metallurgical and Engineering Plant, Iran.   |
|  | 2. Scrutiny of Project Report for Power Equipment Plant, Iran.   |
|  | 3. Industry Survey of 122 Industrial Establishments in India.  |

.....

Ministry of Economy, Italy  
Via ...

Ministry of Economy, Italy  
Via ...

Ministry of Industrial Development  
Via ...

Ministry of Economy, Italian Republic  
Via ...

Ministry of Economic Affairs,  
New Delhi

M/S. William Jackson & Co.  
London.

Techno-economic Survey of ...

Project Report ...

ANNEXURE-II

SCOPE OF WORK

Our services shall include the following :-

- a) Survey the areas in Casamence where the rattan is grown and advise the reed operators and cutters on harvesting and pre-treatment methods with a view to making this raw material suitable for industrial use.
- b) Advise the rattan manufacturing firms on the production of furniture and other items found suitable and economically feasible.
- c) Train the personnel of the factories in handling and processing the rattan in the manufacture of the products selected.

ANNEXURE-III

COST BREAK-DOWN OF OUR FEES

	<u>PART I</u>			<u>TOTAL COST</u>
1.	<u>PROFESSIONAL SERVICES</u>			
	<u>A. Project Area</u>			
	<u>Position Title</u>	<u>Man Months</u>	<u>Cost per Man Month</u>	
	Expert	2	\$ 1000	\$ 2000
	Expert	1	\$ 1000	\$ 1000
			<u>TOTAL PROJECT AREA</u>	<u>\$ 3000</u>
	<u>B. Home Office</u>			
	<u>Position Title</u>	<u>Man Months</u>	<u>Cost per Man Month</u>	
	Expert	2	\$ 1000	\$ 2000
	Expert	1	\$ 1000	\$ 1000
	Expert	1	\$ 1000	\$ 1000
			<u>TOTAL HOME OFFICE</u>	<u>\$ 4000</u>
2.	<u>SUBSISTENCE</u>			
	<u>A. Project Area</u>			
	90 man/days at \$ 21 per day			\$ 1890
	<u>B. Briefing and De-briefing</u>			
	2 man/days at \$ 21 per day			\$ 42
	<u>C. Other (specify)</u>	N.A.		
			<u>TOTAL SUBSISTENCE</u>	<u>\$ 1932</u>
3.	<u>TRAVEL AND TRANSPORTATION (specify in PART II B below)</u>			\$ 2656
4.	<u>REPORTS</u>			\$ 2500
5.	<u>OTHER DIRECT COSTS (specify)</u>			N.A.

contd..

	<u>TOTAL COST</u>
6. <u>EQUIPMENT, MATERIALS AND SUPPLIES</u>	N.A.
7. <u>SUBCONTRACTS (specify)</u>	
Forest Research Institute of India for testing Rattan Reed	\$ 4000
TOTAL SUBCONTRACTS	<u>\$ 4000</u>
8. GRAND TOTAL ITEMS 1 - 7 CONTRACT PRICE	<u>\$ 18088</u>
	Say \$ 18000

PART II

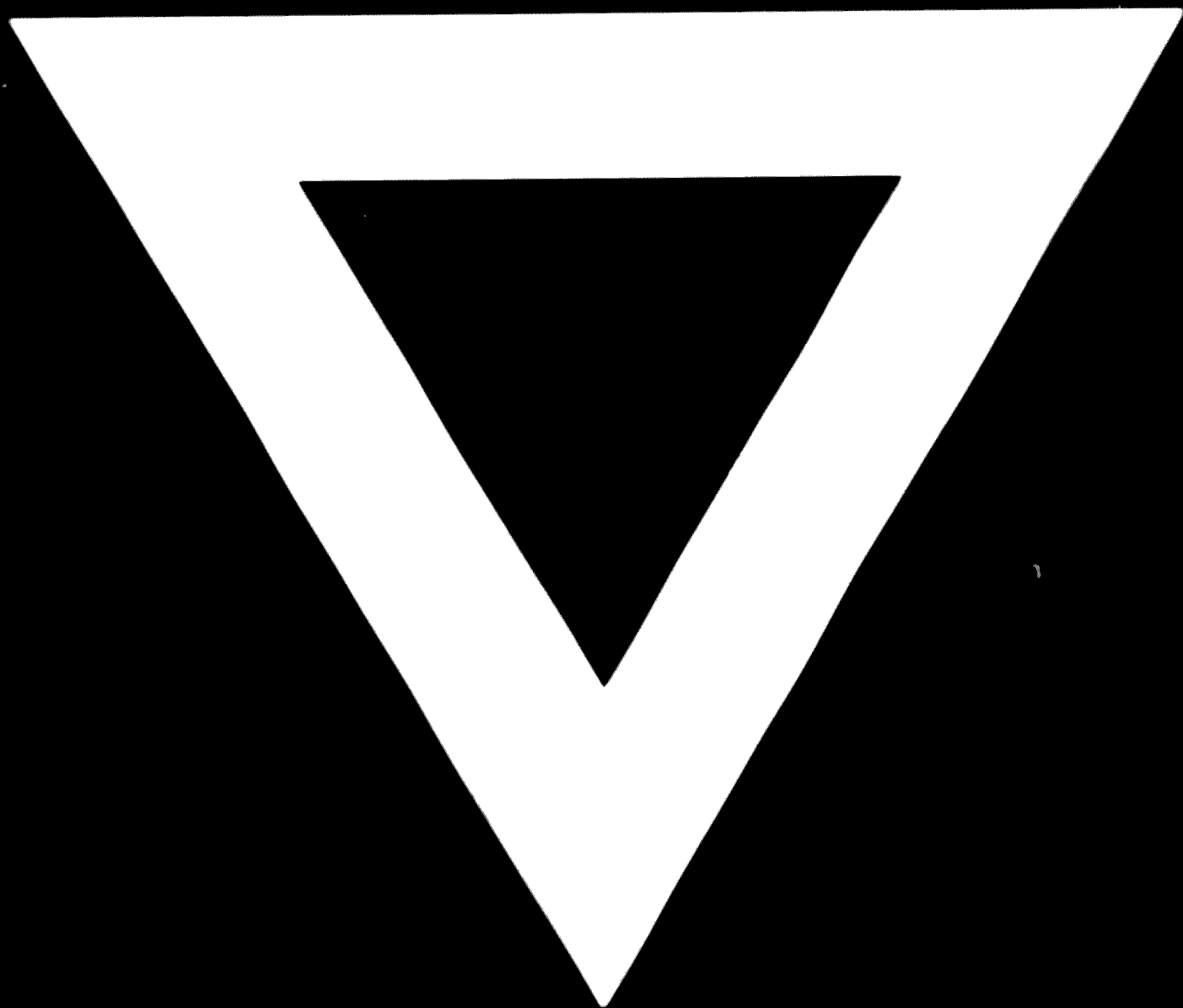
- A. CURRENCY REQUIREMENTS
- a) Contractor's Currency
  - b) Local Currency                   \$ 1890
  - c) Other Currency                   \$ 16110
- B. TRAVEL AND TRANSPORTATION EXPENSES (List - See  
Instructions, para.3)



TRAVEL AND TRANSPORTATION

S. No.	Round or one trip	Origin and Destination	Mode of Transportation.	Cost per trip including air fare amounts	Person(s) travelling and purpose of trip
1.	One round trip	Delhi-Vienna-Senegal-Vienna-Delhi	Air	₹ 1290	Team Leader for briefing at UNIDO, Vienna and starting work in Project Area.
2.	One round trip	Delhi-Senegal-Delhi	Air	₹ 1125	Expert for starting work at Project Area
TOTAL				<u>₹ 2415</u>	
10% Surcharge as levied by Govt. of India				₹ 241	
Grand Total				₹ 2656	

**C-614**



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**AD.86.07**

**1115.5+10**