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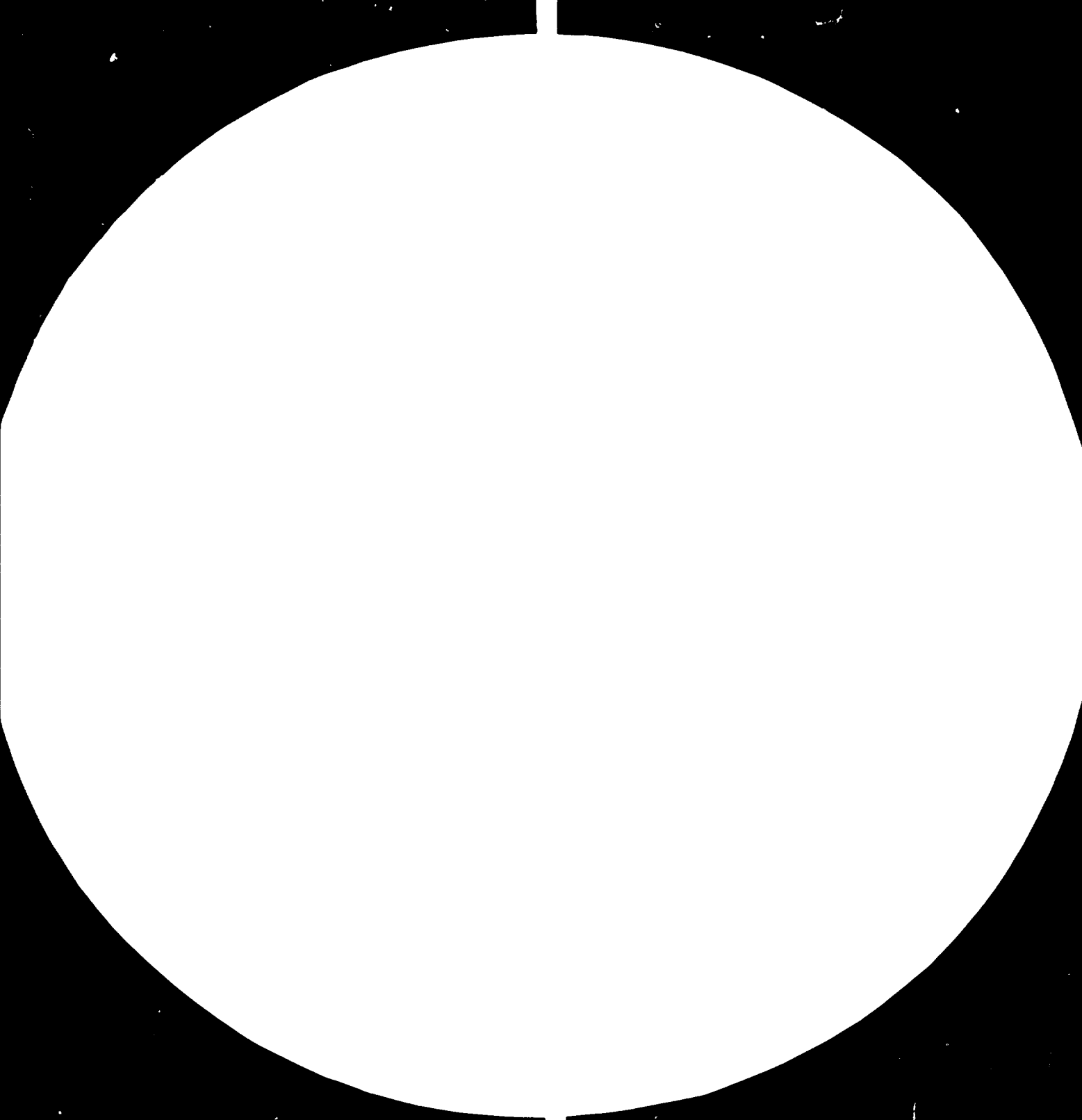
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7. The resolution test target is used to determine the resolution of the system. The resolution is the number of lines per inch (LPI) that the system can resolve. The resolution is determined by the number of lines that are resolved in the test target. The resolution is determined by the number of lines that are resolved in the test target.



TEL 695261 (10 LINES)
GRAMS STEELBUILT
TELEX No. 011-4986

NEW STANDARD ENGINEERING COMPANY LIMITED

NSE ESTATE, GOREGAON EAST, BOMBAY-400 063

AIR FREIGHT

Ref: IND:NSE:EXP:K

28 July 1981.

Pilot & Demonstration Foundry Project
P. O. Box - 107
Kathmandu
Nepal.

Kind Attention Mr. M.J. Schulze - Project Co-ordinator.

Sub: Pilot & Demonstration Foundry Project No.
SM/NEP/79/001.

Ref: UNIDO - Contract No: 80/49.

Dear Sirs:

Further to our letter of even reference dated 11 July 1981 and our telegram of 13 July 1981 we are submitting herewith the following:

1. Ten copies of our Final Report dated 27 July 1981 which comprises of one original, one second copy, one third copy & seven zerox copies.
2. Four sets of documents bound in six folders as were submitted with our letter of 11 July 1981.
3. Fourteen prints of Project Implementation Schedule Bar-Chart - Drawing No:UNIDO/FP/106.

With the submission of these documents we have fulfilled all requirements that were laid down by you in the Minutes of Meeting held at Kathmandu on 18-19 June 1981.

Thanking you,

Yours faithfully,
for New Standard Engg.Co.Limited

R. B. S. Mahal
Chief Manager - Foundry Projects

cc to:

Mr. D.F. Mant
Chief Purchase &
Contracts Service Section
Vienna International Centre
P.O. Box 300
A-1400 Vienna
Austria.

:: Enclosed with your cc
this letter is one set
documents refered abo

RBSM/dv.



TEL: 695261 (10 LINES)
GRAMS: STEELBUTLI
TELEX No. 011 4980

NEW STANDARD ENGINEERING COMPANY LIMITED

(REGD. OFFICE) NSE ESTATE, GOREGAON EAST, BOMBAY-400 063)

Dated 27 July 1981.

FINAL REPORT

on

Planning, Engineering and Civil Works Design and Preparation
of Equipment List & Specifications.

for

PILOT AND DEMONSTRATION FOUNDRY

KATHMANDU - NEPAL.

PROJECT No: SM/NEP/79/001

UNIDO CONTRACT NO: 80/49

Based on Minutes of Meeting held at Kathmandu on 18-19 June 1981 NSE submitted with letter IND:NSE:EXP:K dated 11 July 1981 ten (10) sets of the following documents bound in six folders which form part of this FINAL REPORT and which were air freighted to Kathmandu against Indian Airlines - Air Consignment Note No. 058 - 28345240 dated 13 July 1981.

I. Plant & Machinery Specification No: UNIDO/FP/SPEC/104.

II. Civil Works Tender Documents comprising of:

- a. Bid Bond
- b. Articles of Agreement
- c. General Instructions to Contractors
- d. Special Conditions
- e. General Conditions of Contract
- f. Specification
- g. Schedule of Quantities:

1. Administrative Building
2. Workshop Building
3. Electrical
4. Plumbing

III. Architectural Drawings:

1. Birds eye view
2. Plant layout - Drawing No: UNIDO/FP/104
3. Ground Floor - Drawing No: UNIDO/FP/104/AR/08
4. First Floor - Drawing No: UNIDO/FP/104/AR/09
5. Centre Line Plan - Drawing No: UNIDO/FP/104/AR/10R1

contd...2/-

6. Centre Line Plan - Drawing No: UNIDO/FP/104/AR/11R3
 7. Ground Floor Plan - Administration - Drawing No: UNIDO/FP/104/AR/12
 8. First Floor Plan - Administration - Drawing No: UNIDO/FP/104/AR/13
 9. Ground Floor Plan - Workshop - Drawing No: UNIDO/FP/104/AR/14
 10. First Floor Plan - Sections (Workshop) Drawing No: UNIDO/FP/104/AR/15
 11. Staircase Details - Drawing No: UNIDO/FP/104/AR/16
 12. Auditorium & Door Details - Drawing No: UNIDO/FP/104/AR/17
 13. Entrance Canopy & Steps & Over Head Water Storage Tank - Drawing No: UNIDO/FP/104/AR/18.
 14. Section through Kitchen & Terrace Plan (Administration) - Drawing No: UNIDO/FP/104/AR/19
 15. Section through Canteen & Rolling Shutter of Foundry - Drawing No: UNIDO/FP/104/AR/20
 16. Toilet Block Plan & Section - Drawing No: UNIDO/FP/104/AR/22
 17. Details - Drawing No: UNIDO/FP/104/AR/23
 18. Details - Drawing No: UNIDO/FP/104/AR/24
 19. Details - Drawing No: UNIDO/FP/104/AR/25
 20. Part Elevation - Drawing No: UNIDO/FP/104/AR/26
- IV. Structural Drawings - R.C.C.
1. Schedule of columns, footings & Details of - Drawing No: UNIDO/FP/104/SC/61/1/R4
 2. Schedule of lintels & Plinth Beams - Drawing No: UNIDO/FP/104/SC/61/2-R1
 3. Schedule of Slabs & Beams - Drawing No: UNDO/FP/104/SC/61/3-R1.
 4. Schedule of Slabs & Beams at Terrace Level - Drawing No: UNIDO/FP/104/SC/61/4

5. RCC details of over head water storage tank - Drawing No: UNIDO/FP/104/SC/61/5
6. RCC details of underground - Drawing No: UNIDO/FP/104/SC/61/6
7. RCC details - Drawing No: UNIDO/FP/104/SC/61/7
8. Typical details & General Notes - Drawing No: UNIDO/FP/104/SC/61/GN

V. Fabrication Drawings:

1. Fabrication Details of Portal Frames PF1 & PF2 - Drawing No. UNIDO/EP/104/SC/FB-1
2. Fabrication Detail for Portal Frame PF3 - Drawing No: UNIDO/FP/104/SC/FB-2
3. Fabrication Details for Portal Frames PF4, PF5 & PF6 - Drawing N: UNIDO/FP/104/SC/FB/3
4. Fabrication Details - Drawing No: UNIDO/FP/104/SC/FB/4
5. Fabrication Details of Purlins & Sag Angles - Drawing No: UNIDO/FP/104/SC/FB/5
6. Fabrication details of Cladding - Drawing No: UNIDO/FP/104/SC/FB/6

VI. Services:

1. Ground Floor Electrical Layout - Drawing No: UNIDO/FP/104/AR/27
2. First Floor Electrical Layout - Drawing No. UNIDO/FP/104/AR/28
3. Terrace Plan - Workshop & Drainage Layout/Plumbing Drawing No: UNIDO/FP/104/AR/29
4. Compressed Air Line Diagram - Drawing No: UNIDO/FP/105.

In addition to the above, the following documents are submitted with this FINAL REPORT:

1. 15 Blue Prints of Project Implementation Schedule Bar Chart Drawing No: UNIDO/FP/106.
2. 5 Sets of Six bound folders as were submitted with letter IND:NSE:EXP:K dated 11 July 1981.

From the Project Implementation Schedule Bar Chart it may be noted that:

1. Foundry Plant Building & Shed will be ready by 31 July 1982 with only fixing of Doors & Windows which will be taken up from 30 June 1982 and completed by 10 September 1982.
2. Foundry Plant Shed steel structures will be fabricated & erected by 4 April 1982 and AC Sheet Roofing completed by 30 April 1982.
3. Foundry Plant Building & Shed floor concreting will be started from 10 March 1982 and completed by 10 May 1982.

Therefore from 15 April 1982 Foundry Plant shed will be in a position to receive Foundry Equipment that is to be installed in AB - BC & CD Bays.

Thus procurement of Foundry Equipment should be so arranged that they start arriving at the Project Site between mid-April 1982 and mid-July 1982, in a manner, that the equipment needing more lead time for erection such as the sand plant, moulding line, furnaces & compressor arrive latest by mid-May 1982. This will facilitate erection of these equipments by mid-September 1982 so that pre-production trials can be made between 15 September to 14 October 1982 and Plant inaugurated by 20 October 1982.

To meet this schedule of Plant inauguration by 20 October 1982, it must be assured that all orders for equipment are so finalised that foundation drawings of all equipment are available and released to the Civil Contractor by mid-November 1981 so that equipment foundations are cast simultaneously with the flooring to save time and substantial expenses of digging & casting of foundations if these are cast after soling/concreting of Shop floors. After the Plant inauguration by 20 October 1982 work on the Administrative Building will continue and be completed by 20 December 1982.

Thereafter the PILOT AND DEMONSTRATION FOUNDRY can be fully commissioned by 31 December 1982.

With the submission of the above documents and this FINAL REPORT we are concluding this Contract having carried out the duties assigned to NSE as per following Terms of Reference of Sub-contract:

1. Submit detailed layout plan/drawing showing & identifying all fixed mounted equipment.

2. Submit a complete list of equipment, machinery, instruments and tools with essential technical specifications required for the operation of the foundry.
3. Submit all necessary detailed engineering and civil works drawings required for the erection and installation of the foundry.
4. Provide exact specifications and instruments for the installation of all service facilities - such as - internal electricity wiring, water lines, drainage system and compressed air lines.
5. Provide in writing all the necessary instructions & explanations needed for the execution of the project, including a chart showing what work in what sequence is to be carried out until the complete erection of the Pilot & Demonstration Foundry.
6. All other drawings, specifications, descriptions, etc. not described but presumed necessary for the erection and installation of the Pilot & Demonstration Foundry, including detailed construction drawings of equipment requiring individual fabrication.

In order that the Pilot & Demonstration Foundry is conceived in the manner it has been designed by us, we are willing to provide the required technical consultancy and/or supervisory services during construction and start-up period on mutually agreed terms.



SOME FIGURES
OF THIS DOCUMENT
ARE TOO LARGE
FOR MICROFICHING
AND WILL NOT
BE PHOTOGRAPHED.

