Niroo Va Tavan

Engineering ,
Procurement &
Constraction Company

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COMPANY PROFILE

1. COMPANY PROFILE

Niroo Va Tavan* (*NVT*)** is a private joint stock, Iranian ***Engineering, ***P***rocurement and ***C***onstruction (***EPC***) company which provides general and specialized services to oil, gas, petrochemical, power plant and industrial complexes.

NVT was founded in September 1984 in Tehran by a team of highly qualified engineers in different fields of industry.

M.P.O. assigned ***NVT*** the high grade in execution of industries and energy related projects.

At ***NVT***, our success as your partner is not only measured by the quality of your completed facility, but also by the quality of the process by which we get there. We understand that intangibles of a project, dedication to teamwork, focus on client goals, uncompromised quality and relationship built on trust, are just as important as the building itself.

Because of our outstanding performance record, each of our clients comes back, to us again and again. At ***NVT***, we are committed to safety, quality, training and cost control. Our people represent the spirit and culture within our organization. Our clients repeated business with us reveals our ability to make the entire building process an enjoyable journey from start to finish.

2. SCOPE OF SERVICES

2.1 Feasibility, Technical - Economic and Financial Studies:

NVT facilitates the decision making process on the investment required for starting and executing a new project, considering the available parameters such as: existing and future markets, suitable sites, required and available labor, raw material supplies, required investment, profitability, impact of such investment on the economic, social and environmental local conditions.

2.2 Basic and Detail Engineering and Project Management

a) Basic Engineering:

Based upon the process chosen by the Client for the operations to be developed at a new plant, and the tender documents technical attachments finalized as the Contract Attachments, ***NVT*** starts the basic design according to design criteria and standards specified in the Contract.

Basic design includes the preparation of a wide range of documents on the following issues, among others:

- Process Flow Diagrams.
- P & I Diagrams.
- Material and Energy balances.
- Electrical Single Line Diagrams
- Engineering Computer Based Calculations: Process, Civil, Mechanical, Electrical, Piping, C&I
- Plot Plan,
-Civil Drawings
- Piping Plans.
- Mechanical Diagrams.
- List of Equipment
- Bill Of Quantities
- Main Equipment specifications.
-Technical Data Sheets
- Control System Layout.

- Logic Diagrams
-Cause& Effect Diagrams
- Underground Facilities.

These documents after the approval of the Client, enable the project manager to order the main equipment and ninety per cent of the bulk material .

b) Detailed Engineering:

NVT with the help of the manufacturing sub- contractors develops the basic engineering to a sufficient level of ***details*** that allow a facility to be constructed. To this end, ***NVT*** divides all the required drawings and documents, into two main sections.

The first section (Balance of Plant) prepared by **NVT** contains the detailed version of the basic drawings such as:

- Plot Plan,
- Piping Plans.
- Final Issue of Isometric Drawings.
- Piping final BOQ
- Pipe Racks & Steel Structures Detail Drawings
-Civil Drawings with Executive Details
-Equipment Foundations Detail Drawings
- Cabling: Cable Sizing, Cable Routes, Cable Trays& Conduits
- Lighting and Lighting Details
-Earthling &Lightening Protection
- Cathodic Protection
- Communication (Telephone, Paging)
- Fire Alarm & Fire Fighting

After the Clients approval of a part of these documents (as per the Contract) the drawings are issued for fabrication and construction

The second section prepared by the **Manufacturers** contains the following Equipment:

- Main Equipment: Gas Turbine Generator, Boilers, Compressors, Reactors, Pressure Vessels, Distilling Towers, Cooling Towers, etc.
- Auxiliary Equipment: Transformers, Diesel Generators, Switchgears and Electric Panels, C&I system and Equipment

For the second section, the following categories of documents will be prepared by the **Manufacturers** such as:

- Technical dimensional assembly &detail drawings
- Installation drawings
- Piping: Plan& Isometric drawings
- Schematic Wiring diagrams
- Programming and Configuration Manuals
- Panel Layout drawings
- Test and Inspection Procedures
- Operation and Maintenance Manuals

The second section of detail design documents shall be subject to **NVT** (or partly **Client**) design review and approval.

c) Project Management:

NVT manages, through a *Project Manager*, the planning and development of the different stages comprising a project, that is to say: *Project Organization*, *Basic &Detail Engineering, Procurement Management, Construction*, *Erection and Commissioning*.

NVT acknowledges the importance and places great emphasis on the problems arising from project management activities with regard to planning and budget control.

The aim of A/M activities is to plan and monitor the proper development of the entire project: *Engineering*, *Procurement Management*, *Fabrication of Equipment* and *Pre-Assembly of Factory-Built, Development of the Construction* and *Erection Operation* on site. These activities pursue two main goals:

- Monitor that the schedule is met.
- Monitor that the agreed budget is complied with, without cost overrunning.

The size of the project influences the assignment of the different technical and clerical resources of the company, usually consisting of a management team headed by a *Project Manager* or of the different groups of technical disciplines, supervised by the relevant responsible individuals.

The usual and basic procedures to establish the organization outline for projects are as follows:

- **Matrix organization**, whereby the *Project Manager* draws on the technical and support services of NVT Departments on an occasional basis.

-**Task-force organization**, whereby the *Project Manager* assigns an individual or a group completely engaged in control over the administration and production tasks of the project.

2.3. Construction, Erection, Recommissioning and Commissioning

The project manager assigns the site manager who in turn assigns site organization staff and with the help of Sub-Contractors carries out Construction and Erection activities, under the supervision of Project Engineering Office and also Clients Supervision Office.

In each field of activity ***NVT*** can rely upon the necessary engineers and technicians to ensure the performance of the construction and the erection of the equipment in strict compliance with the specifications, drawings and other project documents, within *the Specified Schedule, the Contract and the Budget.*

In order the demands and requirements that arise during the construction and execution of a project to be met, ***NVT*** can count on a *Construction Department* which, in addition to supervision of construction, can perform *Construction Management* activities with full responsibility over *Costs, Quality and Construction Schedule*.

In this connection the following activities are performed:

-Preparation of the specifications and documents required for the bidding process.

-Selection of prospective contractors in accordance with the characteristics of each project.

-Issue of technical-economic report on proposal spread sheet results and award recommendations.

Usually ***NVT*** performs the whole project recommissioning activities, while helps the main equipment suppliers to carry-out commissioning and trial run activities (mostly because of the suppliers guarantee obligations)

2.4 Equipment and Material Management, Inspection and Quality Control:

NVT can draw on a pool of highly qualified engineers with extensive experience in the supply of any kind of services associated with procurement required for the construction of an industrial plant or the execution of public works.

These services include the *Procurement Management* for all the supplies, the *Expediting* and *Following-Up* of their *Fabrication*, the *Delivery, Documentation, Inspection and Quality Control of Materials* as well as *Compliance with the Required Specifications*.

They also include the "*Administrative Management and Processing of the Import/Export Documents of supplies*", *"Contracting, Planning and Supervision of the Transportation Services"* as well as "*Insurance and Checking and Approval of the Payment Receipt"* issued by the suppliers.

The coordination of these activities is also assured by the fact that ***NVT*** provides a centralized control throughout each stage of the project.

EPC METHODOLOGY

1. INTRODUCTION

The methodology for the project consists of activities arranged in a sequence to provide an orderly and manageable development from inception to commissioning and finally the commercial operation of the plant.

2. DATA COLLECTION

The project will commence with a general meeting to confirm the scope of work, collect data on the existing plant(s) and sites, and to identify any further required information. Such information may include the need for further geotechnical investigation and environmental permit requirements.

This study will generate preliminary lay outs, the initial design concept and performance data.

This information will be assembled into a comprehensive document known as the "**Project Outline**" which will be submitted to the Client for comment and approval. The "**Project Outline**" will contain sufficient detail for the Client's approval process and activities prior to authorizing preliminary engineering.

3. PRELIMINARY ENGINEERING

The Preliminary Engineering phase, sometimes called the "Definition Phase", builds on the initial concept design outcome by establishing equipment performance parameters. Concurrently with the technical development, this phase also develops how the project is to be carried out. The **management plan**, **quality assurance** and construction plans are tailored to suit the agreed contract strategy. The **project master schedule** is also updated with the latest information. The outcome of this phase is the "**Project Specification**", which is the prime source of engineering and design information for the project, together with system descriptions that are developed into system design descriptions. This document is kept current and complete, including revisions where necessary, throughout the following stages of the project.

4. DESIGN AND PROCUREMENT

At the time of contract signing, the Main equipment are decided upon and the manufacturing will begin immediately.

Following approval of the **Project Specification**, (the basis of Project implementation) by the Employer, the design and procurement phase will include preparation of basic design drawings and equipment specifications for the balance of the plant, assembly of bid packages, evaluation of offers and recommendations for the award of contracts. Prior to issuing bids a Bidders List will be drawn up and agreed upon, including, if necessary, pre-bid qualification.

This phase also includes basic design of the Balance of Plant buildings, electrical and control interfaces.

As part of the standard procedure, all design drawings (CAD produced design graphics) will be independently checked by each Engineering Discipline Manager to see that applicable criteria are followed and to minimize discrepancies and interferences between systems. In addition, before proceeding with detail design, there will be coordination discussions and liaison between the respective engineering discipline designers to allocate areas for equipment, piping, cable trays, ducts and structures so as to minimize interferences.

All design drawings and documents will be reviewed and approved by the respective Discipline Department Managers and Project Design Manager, before being sent to the Client for approval (if so stipuled in the Contract for that document)

As part of the normal design process, all equipment and component drawings and documents prepared by the Vendors will be reviewed by NVT(and if necessary by the Client) to determine that the design meets the requirements of the specifications and applicable codes.

The Inspection and Quality Assurance functions will utilize its staff and factory representation staff for vendor quality compliance. The factory vendor quality compliance representative will witness preliminary and final tests(according to the already approved Vendor "Test and Inspection Procedures") that may by required during the course of manufacture, including final overall examination before shipment. Any deviation will be reported, documented and a disposition made after engineering review.

5. CONSTRUCTION

The **Construction Methodology** consists of activities arranged in a sequence to provide an ordinary and manageable development from inception to commissioning along with considering the following vital factors:

- Safety
- Quality(Drawings &Documents)
- Schedule
- Budget
- Labor Relations
- Community Relations
- Site Management and Logistics

The construction phase will commence with a " Kick off " meeting to confirm the scope of work , collect data on existing situation of plant and site as well as identify any further required information such as specific requirements of "Project Outline". Based on this information, the *management*, *quality assurance* and *construction plans* are tailored to suit the agreed contract strategy.

"***Niroo Va Tavan***" construction management team has comprehensive and proven procedures and systems to handle, conduct and accomplish the mentioned plans. These procedures and plans are concluded from our "Construction Methodology" which contains categories of concepts and activities with logical sequences and relations to assure the safe and reliable construction of plants.

Following concepts and activities describe our ***"*Construction Methodology"** requirements:

A. GENERAL

1) Preparation of site erection procedure

   - Manufacture's erection Procedure
   - Heavy cargo in-site transport and on-bed procedure
   - Equipment storage preservation procedure
   - Erection procedures for various disciplines
   - Welding procedures

2) Damage witnessing and official report issues

3) Site Security:
   - Establish the security procedures including security system for job site area off-site temporary camp for labor.
   - Facilities and organization required for security.

B. SITE PREPRATION FOR TEMPORARY FACILITIES:

1) Overall site installation plan and arrangement.

2) Land spaces for temporary facilities including site offices, warehouse, and storage yards.

3) Temporary site facilities:

- Site offices , related furniture , office equipment , consumables
- Storage house with facilities
- On-Site Catering (Food & Drinks)
- Workshop / repair shop and required equipment and tools
- Parking, rest rooms and first aid.

4) Labor camp (if required):

- Labor Camp with facilities , food and drinks , house keeping including cooking , cleaning , laundry , air conditioning
- Residence for housekeepers and drivers.

5) Temporary fire protection system:

- Overall fire protection system for the site, labor camp and particular site activities.

6) Temporary lighting , fencing , and guarding:

- Overall Temporary lighting, fencing, guarding at site and particular site activities as well as labor camp.

7) Electric power for Construction , site facilities and site labor camp:

- Main supply points , temporary substations , sub-distribution boards ,
- Cost of power consumption
- Maintenance
- Diesel generator sets (if required)

8) Water for construction, site facilities and labor camp:

- Main supply points, main distribution system, including water reservoir, sub-distribution system.
- Additional water supply and distribution system (raw , service and demin water)
- Cost of water consumption
- Maintenance

9) Temporary communication system:

- Telephone system at site offices
- Communication charges

C. FACILITIES & MATERIALS FOR CONSTRUCTION:

1) Compressed air system

2) Temporary material for construction:

- Cement, Rebars, Steel Profiles &Plates

- Pipes, Valves, strainers, steel pates, beams, braces, bolts, nuts, etc.
- Switch boards, distribution boards, cables, outlets, etc.

3) Consumable materials:

- Argon, oxygen , acetylene , dry air , propane , nitrogen , Co_2, SF_6 for refilling
- Welding rods , gouging rods
- Lube oils, grease, flushing oil, demin water, chemical and additions.

4) Templates, grouting materials, paint for temporary purpose, test pieces of HP pipes for welder qualification.

D. CONSTRUCTION EQUIPMENT & TOOLS:

1) Normal construction equipment and tools for on-site transportation, lifting, welding, erecting, measuring, pumping, Batching plant, Cement bunkers, Truck mixers, Concrete pumps, Vibrators, Tower cranes, Scaffold material, Form working material, Concrete sample test equipment, Surveying equipment.
2) Special erection tools (to be specified)

E. APPARATUS & MATERIALS FOR TESTING & COMMISSIONING:

1) For plant mechanical works:

- Standard equipment and facilities
- Special test equipment (to be specified)
- For Hydrostatic tests
- For leak check of vessel , piping and instrument tubing
- For welding (NDT)
- For Paint (film thickness)
- For water or oil flushing
- For chemical /acid /alkaline cleaning , including temporary neutralization
- For steam , gas , air blowout and related works including temporary pipe spools , silencer ,control valves , stop valves , supporting structure and hangers , target plates, temporary blind orifice plates
- Temporary preservation of the pipe/equipment chemical / acid / alkaline-cleaned and/or steam- blown
- For analysis of materials
- Instrument for calibration
- Temporary piping materials for commissioning activities , including valves and vessels other than specified elsewhere

2) For plant electrical works:

- Standard test and facilities
- Special test equipment (to be Specified by the supplier)
- Primary and/or secondary injection test set
- Instrument for calibration
- For AC/DC HV test
- For analysis of materials
- Temporary cabling materials and power supply for commissioning
- Temporary diesel generator for commissioning , if required
- For plant instrumentation and Control Works

- Standard equipment and facilities
- Special test equipment (to be Specified by the supplier)
- Temporary materials for instrumentation for commissioning

F. ON-SITE ACTIVITIES (After Delivery of Cargoes at Site Storage Yard):

- Unloading work
- Unpacking , inspection and reporting
- Protection and storage for both plant and construction equipment and materials
- Inventory Control
- Site transportation and handling
- Checking of foundation and embedded materials and anchor bolts , including their level and lines
- Remedy of the foundation including embedded materials and anchor bolts
- Chipping of foundations
- Installation of anchor bolts and other embedded , box-out type , direct buried into foundation
- Grouting works
- Ground assembly, fabrication, erection, installation of plant equipment and materials.
- Welding works
- Piping Work , including instrument tubing work
- Insulation and cladding work
- Cabling and cable connection works , including grounding Works for both electrical and I&C works
- Recommissioning including *mechanical* :hydrostatic test, cleaning (acid, alkaline,chemicals) blow-out(air, steam , gas), flushing ; *electrical* : telephone & megger test, HV test, idle run of motors and sub-systems ; *I&C* : loop-check
- Commissioning and start-up of BOP equipment, and for the main equipment by furnishing assistant labor for commissioning, operations and performance test, in collaboration with the main equipment suppliers and rectifying the installation and recommissioning defects
- Removing of temporary facilities, surplus materials, etc. from site
- Cleaning of site
- Hand-over the plant to Client
- Remedy of defects during warranty period
- Final inspection , prior to final acceptance

6. COMMISSIONING

A commissioning team will be formed before the start of commissioning. The team will comprise of commissioning supervisors from the **Client, NVT** and main equipment suppliers who will work together under the direction of the Commissioning Manager. The **Client** will provide operations personnel who will assist in the commissioning, start-up and testing of the various plant systems as part of the commissioning team.

A work clearance procedure will be established to see that a system or piece of equipment is safe to work on and shall remain safe while work is in progress.

The system or equipment item is first shutdown, then isolated by blanking lines or opening breakers. To provide maximum protection for workers where inadvertent or accidental energizing or start-up of equipment may result in injury to workers or damage to equipment, a general lock-out procedure , like attaching locks to isolation points, will be followed.
The specific procedure which will be followed must be identified in the application for work clearance submitted by the supervisors.

Supervisors involved in construction, commissioning and start-up shall ensure that staff are fully trained in lock-out procedures and work clearance procedures and that these procedures are followed.

A documentation system will be developed for the project which will set out the various steps which must be followed. Each item on the checklists will be signed off as it is completed.

Multi -part forms are used to record the results of all checks and tests.

The documentation will identify the following three major phases:

A. Mechanical Completion - Establishes construction, erection and recommissioning is complete and system is ready for commissioning.

B. Commissioning - Lists all commissioning checks required before start-up. Upon acceptance by Client that all construction and commissioning activities have successfully taken place and that all documentation is in order, systems or portions of systems will be handed over to Client

C. Start-up - Systems are started, process material are introduced and kept running for the specified duration, until the plant is ready for Commercial Operation and Testing.

Deficiencies, which may become apparent during any phase of the commissioning activities, will be recorded and systematically cleared.

The Commissioning Manual, which will be produced prior to start of commissioning, will include list of inspections and checks which must be made on equipment items and systems to confirm that commissioning is complete and the item or system is ready for hand over to the Client. Information from manual used for similar projects will be available for Client's review.

7. PAC

After successful completion of start-up the handing -over of the whole plant to the Client or PAC(Provisional Acceptance Certificate) takes place and the Guarantee Period begins. The PAC procedures and Guarantee Period durations and conditions will be as per the contract.

8. TESTING

Performance and environmental testing of the plant will be performed after the start of commercial operation by the Client. All operations and normal maintenance activities plus technical assistance for obtaining necessary readings will be provided by the Client.

All performance testing will be carried out using the permanent instrumentation installed on systems and equipment's suitably calibrated. No allowance has been included for supply or installation of special test instrumentation or measuring devices.

8. FAC

After the elapse of Guarantee Period, provided that all defects had been remedied and rectified, the FAC (Final Acceptance Certificate) takes place.

9. TRAINING

The operator training will be based on the information contained in the Plant Operating Manual and will concentrate on overall plant operation including start-up, normal operation, shutdown, standby, abnormal and emergency conditions. Specialized training of operations staff on the equipment or systems supplied for the project could require
separate sessions.

NVT CURRENT PROJECTS

- ## *Jahrom CCPP*

- ***SCOPE:*** *procurement, construction & pre-commissioning of main & Aux cooling system for MW steam unit*
- ***CLIENT:*** MD2
- ***START DATE:*** 95/03/01
- ***DURATION:*** *18 MONTHS*
- ***CONSULTANT ENGINEER:*** *QUDS NIROO*
- ***WORK PROGRESS:*** *45%*

- ## *Jahrom CCPP*

- ***SCOPE:*** *CONSTRUCTION& PRE-COMMISSIONING OF JAHROM CCPP STEAM UNIT*
- ***CLIENT:*** MD2
- ***START DATE:*** 95/04/01
- ***DURATION:*** *16 MONTHS*
- ***CONSULTANT ENGINEER:*** *QUDS NIROO*
- ***WORK PROGRESS:*** *50%*

NVT EXECUTED PROJECTS

- POWER & STEAM GENERATION UNITS IN KHARG OLEFIN COMPLEX

- **SCOPE:** *Engineering, Procurement, Construction & Commissioning of a 110 MW (5x30 MW at ISO conditions) Power Plant with the Steam Generation capacity of 250 Ton/ hr*
- **CLIENT:** *Petrochemical Industries Development Management Company of Iran*
- **START DATE:** *2005*
- **PROVISIONAL ACCEPTANCE:** *2007*
- **MANAGEMENT CONTRACTOR:** *Namvaran Delvar*
- **WORK PROGRESS:** *100%*
- **OTHER PARTNER:** *Moshanir*

-Damavand combined Cycle Power Plant

- ***SCOPE:*** *Procurement, Construction & Recommissioning of Main &Auxiliary Cooling System For 3X150 MW Steam Generator Units*
- ***CLIENT:*** *MAPNA*
- ***START DATE:*** *Oct2007*
- ***Duration:*** *21 Months*
- ***Consultant Engineer*** Moshanir
- ***WORK PROGRESS*** *100%*

-Shafarood Dam

- ***SCOPE:*** *Engineering, Procurement, Construction*
  Pre-Commissioning of Power Plant
- ***CLIENT:*** *Ab Mantaghei Gilan Co.*
- ***START DATE:*** *Feb. 2008*
- ***Duration:*** *48 Months*
- ***Consultant Engineer*** Mahab Ghods
- ***WORK PROGRESS*** *100%*

-Zanjan 3

- ***SCOPE:*** *BOP Mechanical of Zanjan 3 CCPP As EPC Contract*
  Pre-Commissioning of Power Plant
- ***CLIENT:*** *MAPNA*
- .
- ***START DATE:*** *Aug. 2009*
- ***Duration:*** *14 Months*
- ***Consultant Engineer*** Ghods Niroo
- ***WORK PROGRESS*** *100%*

Shirkoh Yazd Combined Cycle Power Plant

- ***SCOPE*** *Procurement, Construction & Pre-Commissioning of Main &Auxiliary Cooling System For 1X484 MW Steam Generator Units*
- ***CLIENT:*** ***Mapna***
- ***START DATE:*** ***March 2012***
- ***Duration:*** ***38 Mounth***
- ***Consultant Engineer*** ***Ameran Ofogh***
- ***WORK PROGRESS*** ***100%***

NGL SIRI

- ***SCOPE*** *Construction & Pre-Commissioning of Main &Utility*
- ***CLIENT:*** ***OIEC***
- ***START DATE:*** ***June 2010***
- ***Duration:*** ***38 Mounth***
- ***Consultant Engineer*** ***Ameran Ofogh***
- ***WORK PROGRESS*** ***100%***

- RUDESHUR 2000 MW POWER PLANT

- **SCOPE:** *Construction & Commissioning of Electrical BOP and Gas Turbines of Rudeshur 2000 MW Power Plant - Phase I Power Capacity (788 MW)*
- **CLIENT:** *European Energy System S.A.*
- **START DATE:** *2005*
- **PROVISIONAL ACCEPTANCE:** *2006*
- **CONSULTANT ENGINEER:** *Wala Energy Engineering*
  No.34.1. Shahid Haghani Highway
  Tel: (+98 21) 88884303

- NEKA 450 MW COMBINED CYCLE POWER PLANT

- **SCOPE:** *Engineering, Procurement, Construction & Commissioning of Electrical & Mechanical BOP & Erection of Boiler, Steam Turbine & Generator*
- **CLIENT:** *Iran Power Development Management Co. - MAPNA*
- **START DATE:** *2004*
- **PROVISIONAL ACCEPTANCE:** *2006*
- **CONSULTANT ENGINEER:** *Iran Electrical Consultant Engineering*
  Moshanir Co. Shahid Khodami St., Vanak Sq., Tehran -Iran.
  Tel: (+98 21) 8779119, 8779684
- **OTHER PARTNER:** *Ameran Ofogh 50%*

- NEKA 450 MW COMBINED CYCLE POWER PLANT

- ***SCOPE:*** *Engineering, Procurement & Construction of Civil Works, Fire Fighting & HVAC*
- ***CLIENT:*** *Iran Power Development Management Co. - MAPNA*
- ***START DATE:*** *2003*
- ***PROVISIONAL ACCEPTANCE:*** *2006*

- ***CONSULTANT ENGINEER:*** *Iran Electrical Consultant Engineering*
  Moshanir Co. Shahid Khodami St., Vanak Sq., Tehran -Iran.
  Tel: (+98 21) 8779119, 8779684
- ***OTHER PARTNER:*** *Ameran Ofogh , Parhoon Tarh 66%*

KARUN III 2000 MW HYDRO POWER PLANT

- ***SCOPE:*** *Construction, Test & Pre-commissioning of Auxiliary Systems of Hydro Power Plant.*
- ***CLIENT:*** *Farab Co.*
- ***START DATE:*** *2003*
- ***PROVISIONAL ACCEPTANCE:*** *2004*
- ***CONSULTANT ENGINEER:*** *Mahab Ghods Consulting Engineers Co.*
  No. 17, Takharestan Ave., Zafar St., Tehran - Iran
  Tel: (+98 21) 2221071-7

- MIDUK COPPER CONCENTRATE PLANT

- ***SCOPE:*** *Construction, Erection, Test & Commissioning of 180,000 Tons Per Year Copper Concentrating Plant*
- ***CLIENT:*** *National Iranian Copper Industries Co.*
- ***START DATE:*** *2002*
- ***PROVISIONAL ACCEPTANCE:*** *2004*
- ***CONSULTANT ENGINEER:*** *NIPEC Co.*
  No. 31, Shahid Haghani Highway, Vanak Sq., Tehran -Iran.
  Tel: (+98 21) 8772603-7

- KERMAN COMBINED CYCLE POWER PLANT

- **SCOPE:** *Construction & Pre-commissioning of Two 159 MW Gas Turbines*
- **CLIENT:** *Iran Power Development Management Co. - MAPNA*
- **START DATE:** *2001*
- **PROVISIONAL ACCEPTANCE:** *2002*
- **CONSULTANT ENGINEER:** *Ghods Niroo Consultant Engineering No. 18, Ostad Motahari St., Tehran - Iran Tel: (+98 21) 8405923, 8408273*

- SHAHID RAJAEI COMBINED CYCLE POWER PLANT

- **SCOPE:** *Construct. & Pre-commissioning of Cooling System of Three 130 MW Steam Turbines.*
- **CLIENT:** *Iran Power Development Management Co. - MAPNA*
- **START DATE:** *2000*
- **PROVISIONAL ACCEPTANCE:** *2002*
- **CONSULTANT ENGINEER:** *Iran Electrical Consultant Engineering*
  Moshanir Co. Shahid Khodami St., Vanak Sq., Tehran -Iran.
  Tel: (+98 21) 8779119, 8779684

- MONTAZER GHAEM COMBINED CYCLE POWER PLANT

- **SCOPE:** *Procurement of Under 4" Piping, & Supports Material, Construction & Pre-commissioning of BOP of Steam Turbines of 2nd Unit*
- **CLIENT:** *Iran Power Development Management Co. - MAPNA*
- **START DATE:** *1999*
- **PROVISIONAL ACCEPTANCE:** *2000*
- **CONSULTANT ENGINEER:** *Iran Electrical Consultant Engineering*
  Moshanir Co. Shahid Khodami St., Vanak Sq., Tehran -Iran.
  Tel: (+98 21) 8779119, 8779684

- MONTAZER GHAEM COMBINED CYCLE POWER PLANT

- **SCOPE:** *Construction & Pre-commissioning of Cooling Systems of Three 130 MW Steam Turbines.*
- **CLIENT:** *Iran Power Development Management Co. - MAPNA*
- **START DATE:** *1998*
- **PROVISIONAL ACCEPTANCE:** *2000*
- **CONSULTANT ENGINEER:** *Iran Electrical Consultant Engineering*
  Moshanir Co. Shahid Khodami St., Vanak Sq., Tehran -Iran.
  Tel: (+98 21) 8779119, 8779684

- BANDAR ABBAS REFINERY PROJECT (MECHANICAL PART)

- **SCOPE:** *Construction & Pre-commissioning of Nitrogen Unit Demineralized Water & Condensate Treatment System, Potable & Plant Water Unit, Machinery Cooling Water System, Fuel System, Instrument / Plant Air Unit & Caustic Soda Dissolving Unit.*
- **CLIENT:** *National Iranian Oil Engineering & Construction Co.*
- **START DATE:** *1995*
- **PROVISIONAL ACCEPTANCE:** *1997*
- **CONSULTANT ENGINEER:** *Snamprogetti & Chiyoda Joint Venture No. 255, Erfan Alley, Mirzaie Shirazi St., Tehran - Iran*
  Tel. : (+98 21) 8718902

- BANDAR ABBAS REFINERY PROJECT (ELECTRICAL PART)

- **SCOPE:** *Engineering & Construction of 15 Substations Including 63 KV Substations.*
- **CLIENT:** *National Iranian Oil Engineering & Construction Co.*
- **START DATE:** *1995*
- **PROVISIONAL ACCEPTANCE:** *1996*
- **CONSULTANT ENGINEER:** *Snamprogetti & Chiyoda Joint Venture No. 255, Erfan Alley, Mirzaie Shirazi St., Tehran - Iran*
  Tel. : (+98 21) 8718902

- GHARB 1000 MW THERMAL POWER PLANT

- ***SCOPE:*** *Construction & Commissioning of Electrical, Control & Instrumentation of Condensate System and Wet Cooling Towers. Effluent & Swage Treatment Plant*
- ***CLIENT:*** *Ministry of Energy, TAVANIR Co.*
- ***START DATE:*** *1995*
- ***PROVISIONAL ACCEPTANCE:*** *1997*
- ***CONSULTANT ENGINEER:*** *Ghods Niroo Consultant Engineering No. 18, Ostad Motahari St., Tehran - Iran Tel: (+98 21) 8405923, 8408273*

- SHARIATI COMBINED CYCLE POWER PLANT

- **SCOPE:** *Construction & Commissioning Of 250 MW Power Plant & Related Auxiliaries Systems.*
- **CLIENT:** *Ministry of Energy, TAVANIR Co.*
- **START DATE:** *1993*
- **PROVISIONAL ACCEPTANCE:** *1995*
- **CONSULTANT ENGINEER:** *Moshanir Co. & John Brown Co. Shahid Khodami St., Vanak Sq., Tehran -Iran*
  Tel: (+98 21) 8779119, 8779684

- SHAHID RAJAI 2000 MW THERMAL POWER PLANT

- **SCOPE:** *Conceptual Design, Detailed Design of Electrical, Control and Instrumentation of HVAC , Lighting and dry cooling Towers*
- **CLIENT:** *Atmosphere Co.*
- **START DATE:** *1993*
- **PROVISIONAL ACCEPTANCE:** *1993*
- **CONSULTANT ENGINEER:** *Iran Electrical Consultant Engineering*
  Moshanir Co. Shahid Khodami St., Vanak Sq., Tehran -Iran.
  Tel: (+98 21) 8779119, 8779684

- ALUMINUM POLLUTION CONTROL OF IRALCO ALUMINUM FACTORY

- **SCOPE:** *Detail Engineering, Fabrication, Construction & Commissioning of Pollution Control Centers No. 1 & 3.*
- **CLIENT:** *Iran Aluminum Production Co.*
- **START DATE:** *1990*
- **PROVISIONAL ACCEPTANCE:** *1992*
- **CONSULTANT ENGINEER:** *IRALCO Co.*
  No. 8, North Naft St., Mirdammad Ave., Tehran -Iran
  Tel: +98 21 2258721/4

- KISH ISLAND DESALINATION COMPLEX

- **SCOPE:** *Engineering, Renovation, Construction & Commissioning of 5000 m^3/day Desalination Plant*
- **CLIENT:** *Kish Island Water & Power Co.*
- **START DATE:** *1989*
- **PROVISIONAL ACCEPTANCE:** *1991*
- **CONSULTANT ENGINEER:** *Kish Island Water& Power Engineering Dept.*

EQUIPMENT LIST

Following is the major Equipment owned by NVT:

• *Mobile Crane 50 Tons*	*Tadano*	*1*
• *Mobile Crane 20 Tons*	*P & H*	*1*
• *Mobile Crane 18 Tons*	*Tadano*	*1*
• *Truck Crane 10 Tons*	*Volvo*	*1*
• *Truck Crane 8 Tons*	*Benz*	*1*
• *Truck Crane 4 Tons*	*Benz*	*1*
• *Truck 24 Tons*	*Volvo*	*1*
• *Lift Truck 3 Tons*	*Comastu*	*1*
• *Tractor*	*Tabriz*	*1*
• *Compressor 450 CFM*	*Atlas-Copco*	*2*
• *Camp House 10x3 m & 6x2.5 m* ^{2}	*Sanaye Felezy Iran*	*25*
• *Camp House*	*Diverse Brands*	*6*
• *Container 6x2.5 m & 12x2.5 m* ^{2} ^{2}	*Diverse Brands*	*8*
• *Pick-up*	*Diverse Brands*	*6*
• *Car Diverse Makes*	*10*	
• *Diesel Generator 150 kVA*	*Dorman*	*3*
• *Diesel Generator 175 kVA*	*Volvo*	*1*
• *Diesel Generator 60 kVA*	*Perkinz*	*1*
• *Electro-Welding Machine*	*Diverse Brands*	*20*
• *Diesel-Welding Machine*	*Diverse Brands*	*10*
• *Electronic-Welding Machine (Rectifier)*	*Diverse Brands*	*100*
• *Pipe Auto Threading Machine up to 6 inch*	*Diverse Brands*	*4*
• *Pipe Hand Threading Machine up to 6 inch*	*Rex*	*20*
• *Beveling Machine*	*Diverse Brands*	*5*
• *Pipe Bending*	*Diverse Brands*	*5*
• *Tirfoor Chain block, Lever block (up to 20 ton)*	*Diverse Brands*	*40*

• *Hydraulic Test pump up to 20 bar*	*Diverse Brands*	*4*
• *Heavy Hydraulic Jacks 50~150 Tons With hydraulic pumps*	*Diverse Brands*	*10*
• *Light Hydraulic Jacks (Diff. Ranges)*	*Diverse Brands*	*12*
• *Light Compressor 100 CFM*	*C.P.Co*	*4*
• *All types of electric grinding machines*	*Diverse Brands*	*250*
• *All types of hand drilling machines (Metal & Cement)*	*Diverse Brands*	*40*
• *Electric Hoist Crane 2.5 ton Complete Set*	*Diverse Brands*	*1*
• *Tongue wrench up to 1500* ^{nm}	*Diverse Brands*	*6*
• *Electric saw machine*	*Diverse Brands*	*2*
• *All types of hand wrenches*	*Diverse Brands*	*as required*
• *All types of Piping Tools & Machines*	*Diverse Brands*	*as required*
• *Sand blast & painting equipment set*		*3*
• *Insulation work equipment set*		*1*
• *Complete set of cable Termination*		*30*
• *Instruments (molt meter, megger, …) for Electric recommissioning work*		*as required*
• *Complete set of Instruments for Calibration shop.*		*2*

COOPERATION WITH FOREIGN COMPANIES

1. SIEMENS DEMAG DELAVAL / INDUSTRIAL TURBO MACHINERY AB

SE-61283 Fins pong
Sweden
Tel: +46 [0] 122 810 000
Fax: +46 [0] 122 177 40

Name of Project:
Kharg Olefin Complex Power & Steam Generation Units
Ilam Power & steam Generation Complex
South Pars Gas Field Development / Phase 15 and 16

Scope of Cooperation:
Procurement of Gas Turbine Generators

Date: *2004 - 2005*

Responsible Person:
Mr. Dyanat

2. MARUBENI COOPERATION

West Mirdamad Blvd., No. 316, 2 Floor
Tehran, Iran
Tel: (9821) 8870331
Fax: (9821) 8787128

Name of Project:
Kharg Olefin Complex Power & Steam Generation Units
Ilam Power & steam Generation Complex

Scope of Cooperation:
Procurement of Gas Turbine Generators

Date: *2004 - 2005*

Responsible Person:
Mr. Iori Kobayashi

3. ALSTOM POWER S.R.O., ALSTOM GROUP

Olomoucka 7 / 9, Brno
Czech Republic
Tel: (+420) 545 10 3 158
Fax: (+420) 545 10 2 199

Name of Project:
FAJR Power & Steam Generation Units

Scope of Cooperation:
Procurement of Heat Recovery Steam Generators

Date: *2005*

Responsible Person:
Mr. Josef Hejsek

4. MARUBENI POWER SYSTEM COOPERATION & MITSUBISHI HEAVY INDUSTRIES

Marubeni Bldg.
4-2, Ohtemachz 1 - Chome - Chiyoda - Ku Tokyo 100-8088 Japan
Tel: Tokyo 81-3-3286-9181

Name of Project:
1000 MW Simple Cycle Gas Turbine Power Plant

Scope of Cooperation:
Engineering, Procurement & Construction of Balance of Plant

Date: *2003*

Responsible Person:
Mr. S. Yamashita

5. ALSTOM POWER
(Switzerland Ltd)

Brown BoveriStr.7
CH-5401 Baden/Switzerland
Tel: +41 (0) 562053643

Name of Project:
3000 MW Simple Cycle Gas Turbine Power Plant

Scope of Cooperation:
Engineering, Procurement & Construction of Balance of Plant

Date: *2003*

Responsible Person:
Mr. Tushar Ghosh

6. ELECTRICITE DE FRANCE & SPIE ENERTRANS
(Engineering & Construction Division)

Sanoie - Technolac - 73373
Le Bourget - Du-Lac Cedex, France
Tel: +33- 97606156

Name of Project:
3300 MW Sazbon, Hinimini, Karun IV and Shooshtar H.E.P.P.

Scope of Cooperation:
Project Management, Construction of Power Plant

Date: *1997*

Responsible Person:
Mr. Jean Jubert

7. NWDC
(Northeast China Water &Hydroelectric General Development Corp.)

No.10, Gongnong Road Changchun
P.R. China, 130021
Tel: 0086-0431-5657941

Scope of cooperation:
Promote Each Other for Execution of Projects Including, Engineering, Supply and Procurement, Construction and Commissioning as Well as Providing Facilities.

Date: *1995*

Responsible Person:
Mr. Rong Li (General Manager)

8. AZERENERGOSTROY
(Affiliated of Ministry of Energy of Azerbaijan Republic)

No. 20, Azerbaijan Ave.
370601 Baku. Azerbaijan
Tel: 007892-2-985431

Scope of Cooperation:
General Agreement for Execution of Power Plant and Industrial Plant, Including Engineering, Construction, Commissioning and Manpower Supply.

Date: *1993*

Responsible Person:
Mr. M. Hamidov (General Manager)

9. DURO DAKOVIC - MONTAZA GMBH

Industriezentrum No-Sub, Strasse
Nr. 6, Obj,58, B7-10/II,
A-1355 Wiener Neudorf, Austria

Name of Project:
Gillan Combined Cycle Power Plant

Scope of Cooperation:
Construction of Power Plant

Date: *1992*

Responsible Person:
Mr. Kolbadi

10. CHINA JIANGSU CO.

5 West Beijing Road.
Nanjing 210008,
People,s Republic of China
Tel: (86-25) 332005,3305604

Name of Project:
Moghan Hydro Power Plant

Scope of Cooperation:
Execution of Local Activities (Custom Clearance, Local Transportation, Site Erection, Commissioning Assistance, Local Supply)

Date: *1991*

Responsible Person:
Mr. Jin Ming Bai

11. TURBOTECNICA

(Societe del Nuovo Pignone)

Via F. Matteucci 2- 50127
FIRENZE, Tel: (055) 43921

Name of Project:
2x123 MW Ardabil Gas Turbine power plant

Scope of Cooperation:
Execution of Local Activities (Custom Clearance, local Transportation, Site Erection, Commissioning Assistance, Local Supply)

Date: *1990*

Responsible Person:
Mr. Marco Cioncolini (General Manager)

12. ACEC TURBO POWER SYSTEMS

(Member of the ASEA BROWN BOVERI group)

ATPA, Dok Nood 7
B-9000 Gent (Belgium)
Tel: (091) 257601

Name of Project:
Manufacturing of Steam Turbine

Scope of Cooperation:
Transfer of Technology for Manufacturing of the 2-6 MW Range of Back Pressure Steam Turbines.

Date: *1989*

Responsible Person:
M.J.L. Guiette (General Manger)

VENDORS LIST

(In Last 5 Years)

List of suppliers which collaborated with NVT in last five years:

Pipe:

- ***SADID***
- RASIS AFZAR
- ESMAR IRAN
- ELPA
- POLIRAN ETESAL
- ***JAHAD ZAM ZAM***
- ***IRAN ESMIVAL***
- AHVAZ PIPPING

Fittings:

- *Walthon Weir Pacific (Spain)*
- *Technoforge (Italy)*
- ***SANAYEH TAJHIZAT NAFT***
- RASIS AFZAR
- ESMAR IRAN
- ASIA ABZAR DAGHIGH
- POLIRAN ETESAL
- MASHIN SAZI ARAK
- TOOS PEYVAND
- MAHAN DAR AHVAZ
- FORJING

Flanges:

- *Truvay & Cauvin (UK)*
- ***SANAYEH TAJHIZAT NAFT***
- RASIS AFZAR
- ESMAR IRAN
- ASIA ABZAR DAGHIGH
- MASHIN SAZI ARAK
- TOOS PEYVAND
- MAHAN DAR AHVAZ
- FORJING

Valve:

- *Walthon Weir Pacific (Spain)*
- *Daniel Europe (UK)*
- *Econusto (UK)*
- RASIS AFZAR
- ESMAR IRAN
- ***SANAYEH TAJHIZAT NAFT***
- ASIA ABZAR DAGHIGH
- MIVAB
- MECHANIC AB
- PARS PANGAN
- FIMCO

Strainer:

- *Hydac (Germany)*
- *Plenty (UK)*
- *Mahdin (Iran)*
- SARKAN
- SAFI IRAN
- PARS PANGAN

Vertical Tank:

- MASHIN SAZI ARAK
- MAHDIN
- AZARAB
- SANATI ALBORZ
- MASHIN SAZI ALBORZ ABYEK

Underground Tank:

- MASHIN SAZI PARS
- PAYSAZ
- SUPER ACTIVE
- REACTOR SAZ
- POOLAD SAZAN
- MASHIN SAZI ALBORZ ABYEK

Process Pumps:

- *Flowserve (UK)*
- *Nouvopignone (Italy)*
- *Sterling (UK)*
- *Wafa Pump (Poland)*
- MOHANDESI ARDAL
- ***POMP IRAN***
- POMPHAYE SANATI IRAN
- POMP BARTAR
- POMP BERKEH

Fire Fighting Pumps:

- *Patterson*
- *Sterling*
- MOHANDESI ARDAL
- PETCO

Compressors:

- ATLAS COOPKO
- ***PARS COMPRESSOR***

Motors:

- *ABB (Sweden)*
- *Siemens (Germany)*
- *AEG (Germany)*

Diesel Engines:

- MAC NIROO
- FARSI DIZEL
- WART SILA
- SAZAND

Fire Fighting & Fire Alarm Equipment:

- DAROUS IRAN
- NARFOM KAR
- MELI ATFA IRAN
- IMAN PARS
- NEGAHBAN
- TAK LAD
- PAD ATASH PARS
- MAZDAK
- ALARMCO
- ARIYAK
- BEST ALARM

Cranes:

- VAZNEH
- FIROOZA
- FESAN
- ARIAN

HVAC:

- TOLIDI SANATI DATIS KAR
- SARAN
- SARAVEL

MV Panels:

- JABOON
- PARS TABLO
- TAMIN TABLO
- YEM
- ***IRAN SWTICH***
- ELECTRO KAVIR
- NEKANOVIN

LV & Control Panels:

- ***JABOON***
- KERMAN TABLO
- PARS TABLO
- SEABOOK
- TAMIN TABLO
- IRAN TABLO
- YEM
- PANJ TASH
- MALZOOMAT BARGH
- SELAKO
- ***NEKANOVIN***
- ELECTRO KAVIR
- TABLIRAN
- NIROOARA ANDISH

DC Panels:

- TAGHZIYEH ELECTRONIC
- JAHAD DANESHGAHI ELM O SANAT
- POOYEH ELECTRONIC

Cables:

- SIMCO
- ALBORZ
- KERMAN
- ABHAR
- YAZD
- SHAHIN
- BAKHTAR
- RESANA

Cable Trays, Conduits & Ladders:

- HATEL
- AHVAZ FANOOS
- PANJ TASH
- PARS AKHGAR
- MONAVAR GOSTAR

Circuit Breakers & Disconnecting Switch:

- PARS SWITCH
- *ABB*
- *Siemens*
- *Alstom*

Transformers:

- IRAN TRANSFO
- *Siemens*
- *Alstom*
- *ABB*
- *Elin (Germany)*
- ***TRANS ARAS***

Current & Voltage Transformers:

- NIROO TRANS
- *ABB*
- *Siemens*
- *Alstom*
- *ABE*
- *Char*
- *Mag Electric*

High Voltage Steel Structures:

- BONYAD POOSHESH
- HATEL
- GAM ARAK
- AVANGAN
- FARASAZ
- POST ARAS

Lighting Equipment:

- ***JAR***
- FAR
- MAZI NOOR
- FAJR

Cathodic Protection:

- ***BORNA ELECTRIC***
- ***JAHAD DANESHGAHI (ELM O SANAT)***
- ***PETONIA***

Line Traps:

- MOJ NIROO
- TAKAB

Insulator:

- *NGK*
- SERAM
- MANEH

Heat Tracing:

- PARS JOLFA
- *Rotfil*

Power Cables:

- ABHAR
- ALBORZ
- BAKHTAR
- NOSKUB
- SIMCO
- KERMAN
- SHAHIN

Painting Material:

- RANGIN
- RONAS
- PARS PAMCHAL

Electrode:

- *Bohler Gesellschaft (UK)*
- *ESAB (Sweden)*
- *Ama (Iran)*

Switchgear:

- *Jaboon (Iran)*
- *Elkan (Iran)*
- *Iran Seabook (Iran)*
- *Electro Kavir Yazd*

- *Neka Novin*

Electrical Process Instrument:

- *Enraf (UK)*
- *Fisher Rosemount (UK)*
- *Honey well (UK)*
- ASIA ABZAR DAGHIGH
- *Patsa Sanat*

Earthing System:

- PETONIA
- ESPAK

Instrument:

- *Patsa Sanat*
- *Asia Abzar Daghigh*
- Control Sanat

QUALITY MANAGEMENT PROGRAM

(Management Plan)

1. QUALITY MANAGEMENT

1.1 Introduction

A quality management program, encompassing all stages and disciplines of a project, is a key to the successful management and quality control of all projects and is fundamental to the project management services ***Niroo Va Tavan(NVT)*** provides to its clients. The following describes ***NVT*** philosophy and approach to quality control, and will be incorporated into the plans which we propose to provide.

1.2 The Quality Management Process

Quality Management is the control and monitoring of the processes of quality assurance and quality control to ensure conformance with specifications.

Quality is achieved by good performance. This requires that all activities be appropriately planned, implemented and controlled. Verification ascertains the existence of quality. The combination of performance and verification provide assurance of quality.

For a company to achieve quality, implementing a quality assurance program is required which is most generally arranged by the issuing of a company Quality Assurance Manual.

Quality Assurance Program means a program for defining, planning, conducting and controlling of all Quality Assurance activities that lead to the completion of a project with Quality.

Quality Assurance means all those planned and systematic actions necessary to provide adequate confidence that a structure, system or component will perform satisfactorily in service.

Quality Control means those quality assurance actions which provide a means to *control and measure* the compliance of characteristics of the work processes to established requirements.

The ***Quality Assurance Manual*** contains a number of procedures that must be undertaken by those controlling the 'work' to give adequate assurance that the required quality is being achieved. The 'work' embraces design, procurement, manufacture, installation and construction.

The preparation of a Quality Assurance Manual is a significant task. A copy of the typical Table of Contents of ***NVT*** Quality Assurance Manual is provided in Section 2.

1.3 Required Quality

In order to be able to judge whether the required quality is being achieved, it is necessary to first define the quality required. This is accomplished through a variety of documentation, depending on whether the aspect whose quality is being defined is engineering design, procurement, manufacturing, installation or construction.

1.3.1 Engineering Design & Procurement

The document defining the quality of engineering design is often referred to as a 'Design Criteria'. This document lists any design standards to be followed, the relevant values of design parameters to be employed and the design approach to be adopted. For instance for thermal generating station, design criteria would be required for all of the various types of electrical and mechanical equipment, including the performance requirements to be achieved not only by the equipment, but also by the systems of which the equipment is a part. The design criteria would be followed during the preparation of technical specifications for procurement, for the review of suppliers' designs, and later for the preparation of start-up and commissioning procedures.

The ***Procurement quality assurance*** procedure to ensure adequate quality is being achieved by the suppliers would

- describe the general and specific standards to which the equipment must be designed
- describe the types of checks that would be made of the assumptions and calculations produced by the designer as well as those by the supplier
- indicate the degree of the checking to be performed
- indicate who is responsible for making these checks.

1.3.2 Manufacturing

The quality of manufacturing to be achieved is defined by the contract technical specifications.
The manufacturing quality assurance procedures are needed to describe steps that will be taken during the manufacturing of the equipment to be supplied to the project. These steps will provide adequate assurance that the manufacturers are following the prescribed procedures and that they are achieving the required quality. The procedure would

- define which aspects during the manufacturing process require mandatory inspection by the client or his representative and which others may be inspected by the supplier and the results of such inspections documented and submitted
- indicate which shop tests will be witnessed by the client or his representatives
- advise whether inspection of packaging prior to shipping is required
- advise whether written clearance to ship is necessary.

For major custom-designed and manufactured equipment, it is usual that considerable quality assurance effort employed by the Client, since the quality and subsequent performance of the equipment is paramount to the success of the project. In such cases, the procedures are fairly lengthy and specific to the equipment in question. For standard off-the-shelf items, the Client generally retains the right of inspection and shipping clearance, but rarely exercises that right.

Section 2 contains a copy of a typical table of contents of a ***NVT Quality Assurance Manual*** as well as a ***Quality Assurance Program for Manufacturing***. These documents demonstrate ***NVT*** approach and commitment to the implementation of a proactive quality assurance program.

1.3.3 Construction and Installation

A very proactive role should be taken by the Client during the construction and installation of the plant since only the Client or his representatives can be expected to have a full appreciation of the total project and, in particular, the ongoing satisfactory performance of the completed project.

Individuals, representing the Client, suitably skilled in the appropriate disciplines, should closely monitor and record the quality (and schedule) performance of the contractors.

Quality assurance procedures are required to describe the efforts to be taken by the site staff. These procedures need to be specific to the project. A generic version of such a Quality Assurance Procedure - Construction and Installation, is provided in Section 2.

2. QUALITY ASSURANCE PHILOSOPHY

2.1 Quality Assurance-Formula for Operation

2.1.1 General

Quality Assurance guarantees that each project will meet quality and delivery schedules and yet this important factor is often overlooked in initial planning stages. In many instances, Quality Assurance is not implemented until serious product failure has resulted in costly delays.

2.1.2 Scope

The scope of services may vary from a nominal advisory function to complete involvement in project undertakings, including review of procedures and specifications, pre-award evaluation of contractor's facilities, shop inspection, progress reporting, expediting of information and equipment, and site inspection during erection and commissioning.

2.1.3 Effect

The client can be certain that materials are supplied, and engineered products are built in the shops in accordance with the requirements of purchase documents, specifications, data sheets, approved procedures, drawings, and applicable codes and standards. Deviations are immediately disclosed and brought to the attention of the client, his delegates, or his engineers. By immediate initiation of corrective actions, cumulative errors are avoided and schedules are maintained.

2.1.4 Participation

Continuous participation in, and association with, modern engineering, manufacturing methods and quality control techniques place the ***NVT*** Quality Assurance Programs in a position of importance in the successful completion of ***Engineering, Procurement and Construction*** projects.

2.2 Procurement Services

2.2.1 Introduction

NVT procurement services comprise the purchase of materials, equipment and contractor services at the lowest cost compatible with project and client requirements. Services also include systematic expediting and inspection to ensure that all materials and equipment purchased are manufactured or fabricated in accordance with engineering specifications and delivered to the client on schedule.

A Purchasing Agent or Supervisor is assigned to control and direct purchasing, inspection, expediting, monitoring and reporting activities associated with the procurement phase of a project. ***NVT*** in-house procurement procedures are adapted to client and project or funding agency requirements when necessary.

2.2.2 Purchasing

Purchasing staff administer each purchase order or contract from the time an inquiry is issued until delivery and acceptance of items ordered**.**

2.2.3 Tasks include

- price and availability
- establishment of a vendor or supplier list
- prequalification of suppliers or contractors
- formulation of requests for quotation or tender document including commercial conditions, conditions of tender, bonding requirements, tax applications, and terms of payment
- issue of tender documents
- receipt of vendor proposals
- commercial evaluation of proposals including tabulation and comparison of commercial and technical proposals submitted considering present-work calculations, compliance checks and delivery schedules
- award recommendations
- issue of purchase orders or contracts including letters of intent or confirming purchase orders
- maintenance of a purchase order register and preparation of regular status reports either manually or by spreadsheet
- administration of purchase orders or contracts including invoice certification, claim management and the issue, as necessary, of amendments or change orders.

2.2.4 Inspection

NVT provides quality assurance testing and inspection services including

- assistance in establishing quality standards
- assistance in approval of bidders and tenders evaluation
- review of specifications for quality assurance requirements
- preparation and monitoring of quality surveillance plans
- shop inspection and reporting
- nondestructive testing, radiography and specialized inspection techniques.

2.3 Quality Assurance Procedure

2.3.1 Introduction

The ***NVT*** Quality Assurance Department is engaged in the provision of high-quality inspection and expediting services in factories and contractors' works on behalf of in-house project groups and/or outside clients.

The nature of this work necessitates particular emphasis on capability, conformance and reliability.

The procedures are set out in two plans, namely

- Part One - ***Quality Assurance Plan***
  Inspection, Witness Testing and Progress Reporting

- Part Two **-** ***Expediting Plan***
Expediting, Measuring and Control of Procurement Progress

2.3.2 Objective

The objective of ***NVT*** Quality Assurance Management is to provide a service which ensures that the products, services and processes will conform to contractual requirements, codes, specifications, procedures and approved drawings.

2.3.3. Policy

To achieve this objective, it is the policy of ***NVT*** Quality Assurance Department to establish and maintain an effective ***Quality Assurance Program*** planned and developed in conjunction with other management functions. Determination of conformance of work to contract requirements shall be made on the basis of objective evidence of quality and quantity.

2.3.4 Associated Inspection Authorities

To provide inspection and/or expediting services ***NVT*** may, with the approval of the purchaser, delegate responsibilities to firms with whom they have been associated and whose services have previously been rendered with satisfactory results in respect to similar equipment.

In the event of such delegation, the firm selected will perform services on behalf of and will report to ***NVT*** who will, in turn, report to the purchaser in a manner so arranged as to avoid undue reporting delays or other complications.

2.3.5 Reports

NVT inspection and/or Expediting reports are prepared and issued to the client as required, on an agreed schedule. These scheduled reports are distributed to all interested parties in accordance with a prearranged distribution list as directed by the client.

2.3.6 Responsibility

Clearly the responsibility for meeting quality and the delivery schedule is that of the vendor. This program is not intended to replace the vendor's duties in this respect.

2.4 Quality Assurance Plan

2.4.1 General

The ***Quality Assurance Program***, together with associated procedures and contractual documents, is designed to ensure that clients' quality requirements are recognized by the vendor and that consistent and uniform control of this quality is adequately maintained. The ***Quality Assurance Program*** is assisted by formal written procedures approved by the engineer and/or client, and provides competent personnel and sufficient inspection coverage throughout all phases of the work furnished and performed by others in order to ensure conformance with contract requirements.

The ***Quality Assurance Program*** is established to meet the requirements outlined in the different national and international standards, codes, specifications and other customer requirements.

The ***Quality Assurance Program*** is adjusted to suit the complexity of products, quantity under process, reliability and interchangeability requirements, and production techniques. It includes provision for assurance of prompt detection of discrepancies and for timely and effective action.

2.4.2 Validity

Part one of Quality Assurance document describes the procedures and formalities in force within ***NVT*** to ensure that the contract requirements are being met and therefore Part One of the reliability of equipment in service will be achieved.

The ***Quality Assurance Department*** of ***"NVT":***

- constitutes a divisional organization for quality directions and quantity follow-up of products for the client
- solicits and coordinates activities in the shops in order to create and maintain an optimum quality level for the products consistent with the ruling specifications, codes and drawings
- is responsible for ensuring that products comply with quality requirements of applicable standards.

These general directions imply that the "***NVT***" Quality Assurance Department

- reviews the manufacture of products during development and production stages, and continuously monitors established routine for changes in quality
- is responsible for ensuring that in-plant inspection of products during production stages is carried out satisfactorily by certified and responsible inspectors
- is responsible for ensuring that established inspection routines and procedures concerning special processes are maintained
- is responsible for ensuring the calibration and inspection of gauges and instruments are being followed satisfactorily
- is the coordinating influence for the client for failure reporting and, with the cooperation of the engineer and the necessary records, for analyzing the quality situation and initiating necessary corrections
- reviews and comments on the specified requirements, and alerts the client or engineer at an early stage if there are not prerequisites for obtaining an acceptable product
- deals with faults which are discovered during inspection, on an individual basis, according to the seriousness of their effect.

2.4.3 Workmanship

Every employee of the ***NVT*** Quality Assurance Department is responsible within the framework of his capability for :

- the correctness of his work and statements made in his report
- receiving documentation from the vendor and ensuring that it is representative of the material offered and that the material is of acceptable quality
- ensuring that faults are discovered and reported on a timely basis
- ensuring that reasonable measures are taken by the contractor to prevent repetition of such faults.

The above implies that the "***NVT***" Inspector is responsible for ensuring that;

- obvious defects throughout the manufacturing phases are corrected and that parts are carefully checked against applicable drawings, procedures and specified requirements
- checking takes place to the extent necessary or as reasonably judged necessary, to ensure compliance with all nondestructive, procedural and operational testing

2.4.4 Inspection Equipment

The ***NVT*** inspector will normally use instruments, measuring tools, tapes, rules, straight-edges, gauge blocks, meters, which are controlled by vendor and are known to conform to condition.

X-ray, ultrasonic, magnetic particle, dye penetrate, resistance, temperature and high- potential testing, due to the sophisticated nature of this equipment and attending regulations, will be witnessed by the ***NVT*** inspector in conjunction with the contractor's or vendor's personnel and in accordance with the restrictions imposed on outside inspectors by the suppliers and the ruling safety regulations.

In cases where the contractor or vendor does not maintain suitable test equipment or measuring devices, the Inspector may require him to obtain outside assistance to satisfy the requirements of the contract.

2.4.5 Manufacture and Assembly

To ensure satisfactory operation at the site, specified equipment is assembled either into one unit or sub assembled units. This enables the Inspector to check the various fitting practices, tolerances, and operating clearances as stipulated in the contract or specifications. The Inspector witnesses all static and hydrostatic testing
and all functional and operational tests.

2.4.6 Inspection Procedure

Inspection procedures require:

- monitoring of manufacturing processes and preparation for shipment; witnessing of tests as may be required by the codes of specifications
- procurement from the vendor and confirmation of necessary details regarding production, welder qualifications, material test reports, repair procedures and dimensional details.

Deviations, concessions and any other matters requiring engineering judgment are reported to the engineer or the client as required for approval.

"NVT" releases equipment from the factory, but final acceptance of the product is at the jobsite.
Conditions affecting delivery, installation, performance or reliability will be detected and corrected before such problems or difficulties have had time to produce a chain reaction.

2.4.7 Quality Assurance Testing

In the initial contact, ***NVT*** informs all suppliers; and through them, all relevant subcontractors, of their inspection and testing document under the title of :"Test and Inspection Procedure" establishing test and inspection procedures and stages and / or tests to be witnessed under the specifications. At the agreed stages on completion of manufacturing, ***NVT*** performs the agreed inspection.

Destructive testing to cover physical properties such as tensile, yield point, elongation, reduction of area, impact and hardness will be witnessed in the vendor's laboratory. Nondestructive testing of ferrous and nonferrous metals for surface and internal defects, as provided by the vendor or as occasion demands, will be witnessed. Inspection reports are issued after each visit or series of visits as may be appropriate or required.

The Inspector may waive inspection or witnessing of tests on minor items, repetitious procedures or certain rolled material when he feels that testing would generate more accurate results during manufacturing. Under these circumstances, ***NVT*** accepts the original manufacturer's test certificates.

Test certificates are checked and evaluated in order to determine that the results obtained by the supplier, in his inspection, are valid and objective.

Additional testing, outside of the normal requirements, that may be deemed necessary are subject to the written approval of the client, if any additional cost to him would thereby be incurred.

At any time during the manufacture of equipment or materials at the vendor's premises or those of subcontractors, ***NVT*** whenever necessary, exercises the right on behalf of the client to reject components or manufacture on grounds of faulty workmanship. In the event of such rejection having an effect upon the stipulated contract or purchase order completion date, ***NVT*** immediately informs the engineer and the client of the occurrence and the reasons for such rejection; otherwise the full information is presented in the subsequent routine report.

In the event of sufficiently serious defects being found in materials or components being manufactured or submitted for inspection or test, ***NVT*** requires the vendor to submit to the client his proposals, with appropriate sketches, or repairs. Immediately following, and if necessary during any such repair, ***NVT*** re-inspects the affected material or equipment and indicates whether manufacture and/or testing can continue.

When manufacturing procedures that have not been previously used are involved ***NVT*** will witness, at the supplier's premises or at such testing laboratories as may be agreed, such type tests as may be required to demonstrate the suitability of the process for the duty it will have to perform in service. Documentation is then issued to verify that manufacturing has complied with specified type tests.

2.4.8 Nonconforming Material

By definition, nonconforming material is that which in the raw or finished condition, whether purchased or manufactured by a vendor, shows faults or which does not conform to the specification or good workmanship.

Nonconforming materials which have been detected shall be reported to the client or engineer, stating the type of fault or appearance of the fault, and measures to be taken by the vendor to salvage or correct the condition.

Nonconforming material which has been detected, where the fault is of such type that an acceptance should be considered, is reported to the engineer or client and the vendor's quality control. The material is accepted only after written approval is received from the engineer or client.

A complicated fault detected during final inspection of a completed component or product is immediately brought to the attention of the vendor. A decision is then made on the remedial action to be taken.

2.4.9 Documentation

The contractor or prime vendor is responsible for and required to draw up complete inspection and Quality Assurance records covering all technical stipulations, deviations, test data, certification and dimensional details, and submit copies of such records to ***NVT*** through their visiting Inspector.

Copies of technical correspondence between the contractor and the engineer need to be forwarded to the Quality Assurance Department of ***NVT*** in order to maintain up-to-date information regarding the progress of approvals and/or changes to the specified requirements of the contract to ensure that the group always has applicable and complete information.

Work instructions and special procedures need to be forwarded to the Quality Assurance Department in order that the Inspector may ensure adherence.

2.4.10 Packaging and Transportation

Upon completion of manufacture and following the satisfactory conclusion of all final inspection and tests, ***NVT*** will, whenever required or considered necessary, check the transport and shipping arrangements previously proposed for each different type of equipment involved. ***NVT*** also checks, as required before shipping, the packaging of the various items, the location of material lists and the application of case markings. Handling and distribution is supervised as necessary. If also relevant, ***NVT*** ensures that the work of forwarding or shipping agents is carried out in a timely and efficient manner and, if specifically required and whenever possible, ***NVT*** will arrange for a final inspection of the equipment to be made on board the carrier in which it is to be transported.

2.4.11 Management Audit

The Head of the ***NVT*** Quality Assurance Department is kept informed of the quality level and trends in the various vendor's factories, and advises the client, vendor and engineer of the quality when required.

Periodic meetings between representatives of the client, engineer and vendor are attended by the Head of the Quality Assurance Department to assist in the resolution of deviations and production problems and the preparation of special procedures.

The Head of the Quality Assurance Department functions as a part of the material evaluation board, and liaison with the various engineers is normally through this channel. The Head of the Quality Assurance Department acts on behalf of the Project Manager in reviewing the technical aspects of specifications to ensure that testing and acceptance standards meet the requirements and intent of the client and the present day codes.

2.5 "Niroo Va Tavan" Quality Assurance Manual (Typical Table of Contents)

The following is a typical table of contents of a quality assurance manual:

- Quality Assurance Program
- Scope of Work
- Work Assignment
- Technical Criteria
- Design Description
- Calculations
- Reports
- Specification
- Release of ***"Niroo Va Tavan***" Drawings
- Review of Vendors' Documents
- Record-Set Documents
- Regulations, Standards and Codes
- Document Approval List
- Special Reviews
- Quality Assurance Audit
- Control of Computer Programs

2.6 Quality Assurance Program - Manufacturing (Typical Table of Contents)

The following is a typical table of contents and brief outline of procedures which would be included in a typical manufacturing quality assurance program. The procedures detailed are based on national and internationally recognized quality assurance standards and requirements.

2.6.1 Policy and Organization

Lists the written procedures for manufacturing quality assurance and gives general details of management activities and direction to provide 'objective evidence' that a quality program exists and is being implemented at the manufacturing works.

2.6.2 Technical Specification Review

Describes the steps necessary to ensure that quality assurance requirements in procurement documents are specified in a manner that is compatible with technical and jurisdictional requirements, and are achievable.

2.6.3 Evaluation of Bidders QA Program

Details those aspects and functions necessary to provide a quality assurance program and is to be used in conjunction with Item 4, below.

2.6.4 Evaluation of Contractor's Quality Assurance Manual

Identifies the categories of a quality assurance program and provides a typical questionnaire for each category in a check list format.

2.6.5 Evaluation of Suppliers Facility

Provides audit check lists or questionnaires that should be used to verify that functions and activities listed in the suppliers quality assurance manual actually exist and are being implemented in the shop or factory.

2.6.6 Evaluation of Manufacturers Inspection Plan

Describes the actions necessary to review and comment on a suppliers or manufacturer's inspection and test plan.

2.6.7 Quality Assurance Audit

Describes the activities required when a quality program is subjected to an annual audit as required and specified. To be used in conjunction with Items 3 and 4, above.

2.6.8 Surveillance Plan

Describes how to prepare an inspection and test plan that provides adequate confidence that a component or piece of equipment being manufactured will perform in accordance with specifications.

2.6.9 Selection of a Quality Assurance Representative (inspector)

Describes qualities and attributes required in an individual who will perform the specified inspections.

2.6.10 Concession Application

Details actions necessary for the disposition of a nonconforming item.

2.6.11 Review of History Dockets

Describes those inspection records needed to provide objective evidence that the fabrication or manufacture of a component is in compliance with specification requirements.

2.6.12 Surveillance Report and Shipping Release

Describes the contents of report to be made on completion of fabrication or manufacture and confirmation that item has been released for shipment.

2.6.13 Internal Audit

Defines the activities necessary to audit the surveillance quality program to ensure that it is performing as required.

2.7 Quality Assurance Procedure Memorandum Construction and Installation - Typical

2.7.1 Survey

(a) Check measuring equipment is in a known state of calibration (prior to use).
(b) Establish benchmarks, control networks (initial).
(c) Check benchmarks at all locations (weekly).
(d) Check borehole depths, have soil analyzed, check borehole location, quantity and diameter (as necessary).
(e) Check excavations, location, depth and size (as necessary).
(f) Check earthworks location, foundation make-up, compactness, (as required).
(g) Check contractors inspection and test plan is being implemented, inspections and tests are performed, records maintained (daily).
(h) Check that drawings in use are latest issue (daily).

2.7.2 Buildings

2.7.2.1 Concrete

(a) Check measuring equipment is in known state of calibration (prior to use).
(b) Check that drawings in use are latest issue (daily).
(c) Check anchoring, piling and location.
(d) Check reinforcement, material certification, dimensions, interconnection, location (as necessary).
(e) Check shuttering for adequacy, strength, location.
(f) Check concrete for mixture, aggregate, temperature, consistency, distance to travel, height and thickness of lift. Bonding between pours, flatness and textures. Take samples from pours for analysis (as necessary).
(g) Check location of components that will be buried or embedded in primary concrete (prior to pour).
(h) Check contractors inspection and test plan is being implemented, inspections are performed, records maintained (daily).

2.7.2.2 Structural Steel

(a) Check measuring equipment is in known state of calibration (prior to use).
(b) Check that drawings in use are latest issue (daily).
(c) Check anchoring, piling and location (on occurrence).

(d) Checkfoundationreinforcement,materialcertification,dimensions,interconnections,locations(asnecessarybutpriorto pour).
(e) Check location of components that will be embedded in concrete (as necessary, prior to pour).
(f) Check main supports are in corrected locations (prior to pour) and material certification is available and checked.
(g) Check concrete for mixture, aggregate, temperature, consistency, depth of lift. Bonding between pours, flatness and texture. Take samples from pours for analysis (as necessary).
(h) Check supporting steelwork, material certification, location and bolt torque (as erected).
(i) Check placement of exterior cladding insulation for dimensions, grade (as erected).
(j) Check contractors inspection and test plan is implemented, inspections and tests are performed and records maintained (daily).

2.7.2.3 Building Interiors

(a) Check measuring equipment is in known state of calibration (prior to use).
(b) Check drawings and latest issue (on occurrence).
(c) Check locations of stairways, entrance/exit doors, access ways, cableways, HVAC ducts, lighting, etc. (as erected).
(d) Check contractors inspection and test plan is implemented, inspections are performed and records maintained (daily).

2.7.3 Receiving Material

2.7.3.1 Contractor

(a) Check that each contractor has a system for identifying material/components.
(b) Check that each contractor has an inspection plan or checklist for receiving incoming material.
(c) Check that material is inspected by contractor and records maintained.
(d) Check that such material is within scope of supply.
(e) Check that received material is properly identified, has documentation to provide 'objective evidence' that material satisfies requirements.
(f) Check that contractor can provide safe and secure storage for receiving material.
(g) Check that contractor has documentation to show status and location of receiving material. Nonconforming material must be clearly identified.
(h) Check that material is located as per contractors documentation. Check that contractor has latest issue of specification, drawings, purchase order, etc., at receiving inspection.
(i) Check that contractor is storing and inventorying spare parts 'as built' drawings and installation manuals if supplied with material.

2.7.3.2 Client

(a) Check that safe, secure, clean area with restricted access is available for storage of material.
(b) Establish method of identifying all received material, recording its status and location.
(c) Inspect all material as required by specification and latest issue of drawings. Maintain records.
(d) Ensure that Client supplied material is accepted only if sufficient support documentation is provided as objective evidence that specified inspection and test have been performed. Maintain records.
(e) Clearly identify and segregate all nonconforming material. Maintain records including implemented corrective action.
(f) Check that the necessary handling tools are available for all material being received.
(g) Inventory all spare parts, 'as built' drawings, installation manual if supplied with material.
(h) Release material for installation by signatures only when satisfied that the material and documentation is in accordance with specified requirements and the location to which the material is designated is clear and safe.

2.7.4 Installation

(a) Check that each contractor has a specific inspection and test plan related to the equipment being installed.
(b) Check that contractor has latest copy of specification, 'as built' drawings, installation manuals applicable to the material being installed.
(c) Check that material is being located where specified and that area is clear and safe.
(d) Check that all measuring and testing devices and tools are in a known state of calibration prior to use.
(e) Check that assembly, interconnection, etc., is proceeding as specified.
(f) Check that contractor is inspecting and testing equipment as specified and shown in the applicable inspection and test plan. Ensure records are maintained by contractor.
(g) Inspect equipment as required by specification, applicable inspection and test plan, 'as built' drawings ensuring all are of the latest issue.
(h) Witness testing in accordance with applicable inspection and test plan.
(i) Identify and clearly tag all nonconforming equipment.
(j) Ensure all equipment has been inspected and tested in accordance with specified requirements and that contractor has the necessary documentation including inspection and test records prior to energizing.
(k) Check that 'commissioning procedures' are accepted by all parties prior to commencing such activities.
(l) Participate in commissioning as required by agreed procedures. Ensure all test records are authenticated and maintained.

(m) Ensure a history docket is prepared containing all necessary documentation such as inspection and test plans, inspection and test records, non-conformances and dispositions, commissioning procedures and results.
(n) Ensure such is properly stored for the contractually agreed period in a suitable environment, easily retrievable and indexed.

HSE PROCEDURE

1. SCOPE

This procedure describes the accident prevention rules and safety programs of ***'Niroo Va Tavan'-NVT*** that shall apply to all personnel engaged for the construction work of the PROJECT. The primary purpose of this procedure is to prevent accidents, which may injure personnel or damage property.

2. SAFETY COMMITTEE

The ***Project Manager*** shall organize a ***Safety Committee*** consisting of ***Site Manager*** and ***Safety Manager*** in order to implement the safety programs covered by the construction safety rules and procedure. The committee shall cover security and sanitation as well as safety activities of the construction work and the operation procedure shall be established prior to starting of the construction work.

3. GENERAL REQUIREMENT

3.1 Identification

All employees working on the SITE shall wear an authorized temper proof badge on their outer garment at all time within the SITE. This badge shall show the registered number and category of each work.

3.2 House Keeping

All construction offices and temporary facilities and work areas shall be kept reasonably clean and free of rubbish and debris, which may create unsafe conditions or fire nearly in the designated area.

3.3 Working Plan

The Safety Committee shall prepare working plans for the following works before the commencement of the construction work:

- Erection and/or assembling of equipment and/or structure of which height is 30m and over.
- Scaffolding having the height of 10m and over which is to be used for 60 days and longer.
- For works which the Committee judges as critical from the viewpoint of safety.

The working plan shall include the organization, schedule, construction equipment arrangement, scaffolding and safety precaution as well as detailed execution plan of the work.

3.4 Excavations

Excavation must be fenced, barricaded, or otherwise protected to prevent personnel from slipping or falling into them. A thorough inspection of the protective system shall be made once each day. Ladders or access slopes shall be provided for working areas 1.5 meters or more below the ground.

An excavation permit shall be obtained for any excavations to be made adjacent to the facilities already constructed (which shall have "Under -ground Composite drawing) before commencing the work to avoid damage to underground cables or piping.

3.5 Posters and Signs

Posters and signs shall be adopted as visual aids for accident and fire prevention. Posters shall be written in Persian, English, or the main language of the workers. They shall be conspicuously displayed. These posters and signs shall not be removed or replaced until the related work is completed.

3.6 Authorization

3.6.1 Authorization & Work Permits

Any work to be performed in a UNIT or AREA shall be controlled by the Safety Manager, and needs work permit before Commencement of the work.

3.6.1.1 Authorizations During Construction

During construction the Area Manager shall ask the Safety Manager specific authorization for following works:

a) Connection to the electric power network.

b) Connection to the water supply network.

c) Installation of stores to contain cylinder gases, highly flammable liquids, paint and similar hazardous materials.

d) Installation of pits for the storage of sealed radioactive sources.

e) Storage and use of explosives.

f) Excavation in restricted area (where electrical cables and piping are laid).

g) Closure of site roads for the purposes of excavations and other activities which will obstruct road traffic.

h) Connection to the sewer system.

3.6.1.2 Work Permits during the Pre-commissioning & Commissioning of the Plant

At certain stages of the progress of a contract some areas of a plant may be simultaneously occupied by several interested groups of people.

They may be divided into three general categories, i.e.:

- Construction & Commissioning Supervision group (Contractor)

- Construction Contractors.

- Employer's Operating Engineers (Employer).

In order to prevent dangerous situations arising through the presence of persons working in these areas occupied by Construction Contractor and Employer Commissioning personnel, the responsibility for the safety of those persons must be determined and agreed before the start of the activity by all the parties concerned.

When the Commissioning Manager intends to carry out testing or pre-commissioning or commissioning operations on the plant, the responsibility for the area will be taken over by the (designated) Employer Area Manager who will assume control of the area.

3.6.1.3 Procedure for the Issuance of the Work Permit:

The Commissioning Manager must advise the Site Manager in writing that the plant, or a section of the plant (to be clearly specified in writing) is to be designated as a "Controlled Area" for a given time and date. The nature of the testing or pre-commissioning or commissioning work to be carried out in that area is to be stated.

Immediately the Resident Manager will issue a Circular to all Parties and will inform Contractor Personnel, Construction Contractor Representative and Employer's Representative that no work is to be carried out in that area unless authorized by the issue of a work permit, at that moment the Employer Area Manager will assume control of the area.

The Construction Contractor shall ask the Work Permit for any work to be carried out on the "Controlled Area".

The Issuing Authority (Employer Area Manager) will indicate the particulars of the precautions to be observed, and will sign the Work Permit.

The person which will execute the work will have the responsibility to observe the prescribed precautions and will start the work only after that all the prescribed checking's have been carried out including the checks by the Employer Fire Brigade.

Warning notices should be posted at the approach to the designated area including the remote ends of live mains where these form part of the processes in the area.

3.6.1.4 Work Permits

- Function of a Work Permit

The issue of a Work Permit authorizes specific work to be carried out under controlled conditions in restricted areas.

- Controlled Areas

Controlled areas are locations which have been designated as areas of special risk and where specific permission is required before starting work.

Before undertaking work of any description in a Controlled Area, it is necessary to apply for and obtain authorization from the pre-commissioning / commissioning activities.

The Safety Committee shall coordinate with Employer to issue the following categories of Permit to Work:

a) Hot Work Permit

Written authorization to carry out any type of work activity, which introduces into a work area, a flame, spark or heat which could cause ignition.

b) Cold Work Permit

A permit to authorize any type of work, other than hot work, carried out in a defined area.

c) Excavation Permit

Permission to carry out excavation deeper than 0.3 meters in a defined area. Hot or Cold Work Permits are still required in addition to an Excavation Permit.

d) Electrical Permit

Written authorization to carry out work on electrical network or equipment.

e) Radiography Permit

Substances or apparatus which emits ionizing radiations shall not be brought into site without Employer Safety Officers written approval.

In addition a radiography permit must be obtained before the use of any such substance or apparatus on site.

f) Entry into Confined Space Permits

A written permit authorizing work to be carried out in any tank, vessel, flue or similar confined space in which dangerous fumes, lack of oxygen or flooding are liable to be encountered. The relevant areas will be defined by the Employer.

The Safety Manager shall provide a daily/ weekly forecast of Permits to be applied for, including type of work, interface activities, work areas, duration and manpower.

3.6.2 Fire Extinguisher

During the construction of the Project, fire extinguishers shall be provided at the working area, especially for construction of office buildings, control rooms, substations and other buildings. Numbers and locations of fire extinguishers to be prepared shall be approved by the Safety Manager before the commencement of the construction work.

3.7 Accident

3.7.1 Injuries

First aid facilities should be provided at construction office area and at the beginning of the construction work a responsible person for first aid, should be nominated.

In the event that some body injured while working on the SITE, it is the Site Manager responsibility to notify the Safety Manager immediately, and to prepare a report in writing within 24 hours.

3.7.2 Fire

In case of fire, the discoverer shall immediately notify the Safety Manager. Persons working adjacent to the site of the fire shall immediately try to put out the fire with fire extinguishers if the fire is small.

3.7.3 Accident Follow-up

The Safety Manager shall furnish with a written accident report on all accidents within 24 hours of occurrence.

All accidents shall be investigated by the Committee and Safety Manager immediately after occurrence of accidents to clarify the causes and to take corrective measures against recurrence of similar accidents on the Site.

3.8 Accident Report

3.8.1 Accident Report

Accident Reports shall be prepared whenever the following accidents occur:

1) Injury involving in loss of or damage to employees.

2) Disease including food poisoning.

3) Traffic accident, including that during off-duty hours.

4) Accidents such as collapse, fire, theft, etc., involving in loss of and damage to machines and facilities.

3.8.2 Filling Blanks

The accident reports shall be filled up in the following manners:

1) Illustrate how the accident occurred.

2) Attach photographs of accident spot and other detailed information such as home address, present address and family members of injured workers in case of death or serious injuries.

3) Gas poisoning, food poisoning, traffic accident, and other injuries to any third party shall be including in the category of Accidents.

3.8.3 Reporting

The Safety Manager shall prepare an accident report on-the-spot investigation of the accident.

In case of serious accident, an accident report shall be submitted to the Safety Committee, and the Project Manager shall call an extraordinary meeting to find the best way of countermeasures for prevention of recurrence of the similar accident and inform of its conclusion to the area Manager to enforce them in their safety practice for further construction work.

3.8.4 Monthly Accident Status Report

The Safety Manager shall prepare the Monthly Accident Status Report at the end of the month, and shall submit it to the Safety Committee as one of monthly construction reports. The report form shall be filed out as follow:

1) For total man hours, fill in actual working hours including overtime.

2) For number of injuries, fill in number of accidents.

3) Injury Frequency, Severity and Mortality can be calculated by following formulas (acc. To ANSI - 2 16.4 - 1977).

$$\text{FREQUENCY (F)} = \frac{\text{NUMBER OF RECORDABLE CASES} \times 200{,}000}{\text{WORKED MANHOURS}}$$

$$\text{SEVERITY(S)} = \frac{\text{NUMBER OF LOST WORKED DAYS}}{\text{WORKED MANHOURS}}$$

$$\text{MORTALITY (M)} = \frac{\text{NUMBER OF DEATH CASES} \times 6{,}000 \times 200{,}000}{\text{WORKED MANHOURS}}$$

3.8.5 Actions to be taken in Emergencies

Fire and injury or other industrial accidents involving in the loss of and damage to the workers or equipment or facilities shall be notified to the parties concerned and shall be further reported through the Emergencies /communication Channel**.**

4. SAFETY EQUIPMENT

4.1 General

All workers shall wear suitable working clothes. Every worker shall wear shoes and a safety helmet on the Site. Safety helmet shall be used properly. Personal protective equipment or devices shall be furnished as required, and their use shall be enforced.

4.2 Sight , Face and Respiration Protection

Workers engaged in electric welding, cutting, or other similar operations shall be required to wear helmets or shields with filters of appropriate shade ,fire resistant hoods and gloves when necessary. For protection of welding workers against inhaling toxic gases ,respiratory masks should be used. Workers engaged in grinding or similar works shall be required to wear goggles with safety filters for sight protection or face masks giving equal protection.

4.3 Safety Belt

Workers in hoppers, bins, or confined spaces or on steep slopes, swinging scaffolds, structural steels, or unstable work at an elevation 2 meters or more above the ground shall be secured by safety belts and independent life lines.

5 TRAFFIC RULES
5.1 General

Only authorized personnel are permitted to operate motorized equipment for the construction work. Operators shall have a valid operator's license**.**

5.2 Parking

All vehicles shall be parked at the area designated by Safety Manager expect vehicles in use for the construction work. Roads which are narrow shall be open without any obstructions at all times for easy access.

Motor vehicles and other mobile equipment shall not be parked adjacent to, fire fighting equipment, existing buildings, walkways, etc.

5.3 Trucks

Trucks and other mobile equipment shall be constructed to prevent material from falling off the equipment onto the road. Any material spilled from the equipment shall be removed from the street immediately.

Materials over hanging the end or sides of a vehicle shall be marked with a red flag.

5.4 Speed Limit

All drivers shall obey the speed limit which is 25 kilometer per hour within the SITE unless otherwise indicated by signs or boards approved by the Safety Manager.

6. WORK AT ELEVATED PLACES

6.1 General

Scaffolds, ramps, ladders, and platforms shall be provided for all works to be done 2 meters or more above the ground.

Erection, replacing, and dismantling of scaffolds, ramps, and platforms shall be directed by the construction supervisors.

Unauthorized persons shall be prohibited from entering the construction area of scaffoldings, ramps, and platforms. Safety ropes and caution signs like NO ENTRY and DANGER OVERHEAD shall be displayed during the construction work.

Scaffolds, ramps, and platforms shall be kept free from grease, mud, or any other material, and shall be inspected regularly every month, and any damaged or unsafe portions shall be repaired or replaced by immediately.

Safety nets shall be provided where scaffolds are infeasible or unavailable, such as when assembling pipe racks, stacks, and structures.

All openings and ends of platforms located 2 meters or more above the ground shall be barricaded or covered. Work at high elevations without a safety belt or safety net shall be prohibited.

6.2 Metal-Tube Scaffolding

The ground on which the uprights are to be erected shall be firmly compacted. If the ground is uneven, adjustable metal base plates shall be used.

In general, the spacing of the uprights shall not exceed 1.8 meters longitudinally, and 1.5 meters in the span direction. Joints of the uprights shall be in a line but staggered. Metal fittings shall be secured and tightened with proper tools.

The construction of scaffolding shall be executed to follow the supplier's procedure.

6.3 System Scaffolding

The scaffold height generally shall not exceed 45 meters, but system scaffolding which exceeds 45 meters shall be designed for the strength. The height of an upright frame shall not exceed 2 meters, and the spacing shall not exceed 1.8 meters. Upright frames shall be tied to cross braces and ledger frames.

Braces shall be fixed by pins or screws to prevent loosening.

The spacing of ties or stays for other walls shall not exceed 5 meters vertically and 5.5 meters horizontally.

System scaffolding shall be erected in accordance with the manufacturer's specification.

6.4 Tank Scaffolding

Structural steel, straps, steel bars for brackets, hooks and hangers shall be free from any damage or corrosion.

Guardrails shall be wire rope not less than 9 mm in diameter or steel pipe not less than 13 mm in diameter. Nylon rope shall not be used.

Spacing between scaffold brackets shall not exceed 3.5 meters.

Planks shall be supported at 2 points or even at 3 point, if necessary.

All ladders shall be fixed to the tank side wall at every 4 meters of height.

6.5 Material Handling

Materials, rubbish, and tools shall not be thrown from upper levels to lower levels or to the ground. Excess materials shall not be placed on the work floor or runway.

When lowering or moving materials on the ground, suitable devices, such as a chute, bag, container with a rope, or a device tied securely with rope, shall be used.

During the work, the foreman shall carefully keep watch, provide NO ENTRY and DANGER OVERHEAD signs, and rope off the related work area for safety.

7. ELECTRICAL WORK

7.1 General

All electrical work shall be performed by qualified and experienced workers. Equipment shall be locked or secured to prevent starting by unauthorized persons.

Live parts of apparatus and wiring shall be effectively guarded to protect all workers or objects from coming into contact.

All equipment and wiring shall be checked daily by the operator before starting the work. All electrical circuits shall be grounded. Warning signs or posters, such as DANGER, NO ENTRY, shall be displayed at dangerous places, such as power generator, switch boxes, and overhead or underground cables.

7.2 Welding Machine

Before welding machines are used, insulation shall be tested and certified to be in safe operating condition. Automatic anti-electric shock devices shall be provided for all welding machines and tested every day before work is started.

7.3 Movable Wiring

Wiring shall be cab-type cable having a dielectric strength of not less than the rated voltage of 600 volts. Cable having ample capacity to the load shall be used.

All cables shall be installed away from any steel materials, such as wire rope, steel-frame scaffold, etc, and cable with any external damage shall not be used.

7.4 Grounding

To prevent short circuits or electric shocks, special precautions, such as grounding, shall be taken for wiring work where metal scaffolds or steel structures are erected. Grounding shall be insured by connecting the wire to an earth rod buried firmly in the ground. Brass or steel bolts and nuts shall be used for grounding terminals of all electrical equipment.

8. ERECTION WORK

8.1 General

The erection work plan and procedure shall be checked.

Warning signs of NO ENTRY and safety ropes shall be provided around the erection working area. The strength of the road and any obstacles on the route of the crane shall be checked. The road shall be reinforced and obstacles removed, where required.

Only authorized persons having a license shall be permitted to operate the crane or to do slinging for lifting equipment.

Lifting work shall not be carried out during bad weather, such as strong winds or rain.

All cranes and winches shall be tested, inspected regularly each month. Cranes or winches shall be locked and braked when not in operation.

8.2 Erection by Gin Pole

The gin pole shall be assembled by a mobile crane or sub-gin pole, from the lower section to the upper section.

Based on the erection plan, the required number of guy ropes (four being on the minimum) shall be installed between the top of the gin pole and the man dead. During the installation of the guy rope, the pole shall be supported by a mobile crane or sub - gin pole.

When dismantling the gin pole, a watchman shall be assigned. The gin pole shall be dismantled carefully to prevent it from falling or being damaged.

8.3 Rigging Work

Rigging work shall be performed under the direction of an authorized foreman.

The lifting weight shall be the total weight of the equipment or materials, crate, and lifting tackle.

Ropes shall be of good quality, free from rust, corrosion, and deformation. Wire rope shall be replaced when either of the following critical conditions is observed:

1) Quantity of broken wires exceeds 10 percent of the total in one strand.

2) Reduction in diameter exceeds 7 percent of the original.

Material shall be lifted by at least 2 ropes, and the sling angle shall not exceed 60 degrees.

The coefficient of safety for the main wire and other rigging shall be 6 or more.

Padding shall be provided at sharp edges of materials to be lifted to prevent the ropes and slings from being damaged or cut.

A guy rope shall be provided especially for extra-long or unstable special materials to be lifted.

9. CONSTRUCTION EQUIPMENT

9.1 General

Prior to use, all construction machinery and mechanized equipment shall be inspected and tested by a competent mechanical engineer and confirmed to be in safe operating condition. Inspection and test shall be conducted at least once a month to assure safe operation, and the records shall be kept by the Safety Manager.

Any machinery or equipment found to be unsafe shall not be used until the unsafe conditions have been corrected. All repairs on machinery and equipment shall be executed at a location designated for this purpose.

Machinery and equipment shall be operated only by designated personnel. Machinery or equipment requiring a licensed operator shall not be permitted to be operated without such an operator. Machinery and equipment shall be locked or secured to prevent them being started by unauthorized persons.

9.2 Safety Devices

All belts, gears, shafts, pulleys, sprockets, spindles, flywheels, or other reciprocating, rotating, or moving parts of equipment shall be provided with protective guards to prevent contact by personnel. All drums on load-hoisting equipment shall be equipped with proper ratchets or other positive locking devices.

A stopper shall be installed on the hook of the crane to prevent the rope from slipping off.

All pressurized equipment and systems shall be equipped with approved safety or relief valves and proper pressure gauges.

9.3 Pressurized Equipment

Any pressurized equipment or systems confirmed to be unsafe shall be tagged OUT OF SERVICE, DO NOT USE. Use of such equipment shall be prohibited until the unsafe condition is corrected.

Pressurized equipment shall be operated and maintained only by qualified and authorized personnel.

It is advisable that the safety valve setting not exceeds 110 percent of the working pressure. The discharge from safety valves, relief valves, and blow offs shall be directed away from personnel.

9.4 Refueling

Gasoline or diesel engine equipment must not be refueled while the engine is operating. Gasoline and fuel should be dispensed through a pump and hose. Approved safety cans may also be used.

10. HAND TOOLS

10.1 General

All hand tools shall be kept in satisfactory condition and used only for purposes for which they are designed. Prior to use, power tools shall be inspected and tested to ensure safe operating conditions. Periodic inspection shall be made to assure safe operating conditions.

When work is being carried out at an elevated position, tools not in use shall be secured or placed in holders.

Flexible rubber cable shall be used for all portable electric tools.

Waterproof connectors shall be used for cable connections.

10.2 Grinding Tools

Use of cracked or damaged grinding wheels shall be prohibited.

10.3 Pneumatic Tools

Air hoses shall be pressure-rated by the manufacturer, and this pressure shall not be exceeded. Defective hoses shall not be used. Compressed air shall be exhausted from the line before disconnecting tools from the line.

11. WELDING AND CUTTING

11.1 General

All welding and cutting apparatus shall be inspected daily.

Defective apparatus and equipment shall be replaced or repaired.

Combustible materials, equipment such as gas cylinders, rubber hoses, and debris shall be removed or shielded from heat, sparks, and slags from welding and cutting.

Welding or cutting work at elevated places shall be conducted only under safe conditions. A safety belt shall be worn.

When welding or cutting in confined areas for a long time, the space shall be well ventilated. During the work, the concentration of oxygen in the air must be greater than 18 percent. When working in a confined area, the workers should at least be paired to avoid accidents.

11.2 Welding Work

All electric welding machines shall be effectively grounded. The ground lead for the welding machine shall be mechanical strong and electrically adequate for the service required.

Approved connectors shall be used to connect the welding cable whenever welding work is suspended or the welder leaves the construction area, the switch shall be turned off and the welding rod disconnected from the holder.

11.3 Gas Work

Cylinders shall be stored in a well ventilated location and shielded from direct sunlight with steel plates or incombustible canvas.

Cylinders transported by crane, hoist, or derrick shall be loaded on cradles, nets, or skid pans, but never in slings or chains or by magnets.

Cylinder caps shall be in place when cylinders are in storage, in transit, and whenever the regulator is not in place.

Acetylene cylinders shall be in an upright position during use and secured to prevent displacement.

Oxygen cylinders and fittings shall be kept away from oil or grease and not handled by oily hands or gloves.

All connections between hose and torch, or regulator shall be tightened rigidly with steel hose bands.

Pressure gauges with cracked glass or damaged regulators shall be renewed.

12. RADIOGRAPHY

12.1 General

Planning and procedure for radiography initially shall be formulated.

All procedures shall be thoroughly discussed by all related persons for familiarization.

All radiation equipment and radioactive materials shall be stored, handled, transported, or disposed of so that no person receives an unnecessary dose of radiation.

Monthly inspections shall be made of radiation apparatus, and the results shall be recorded and filed by the Construction Contractors for the required period. Shield ability of the radioactive material container (to be stored safety after daily work) shall be inspected every six months.

12.2 Supervisor

Radiography shall be performed under the direction of the radiography supervisor responsible for this work. A supervisor shall be appointed at every radiation area.

12.3 Workers

All workers should have extensive knowledge of the work, such as radiation procedure, operation of

radiation apparatus, and the effects of radiation on the body.

12.4 Radiation Area

The area covered within a radius of 5 meters from the radiation working spot or location shall be called the radiation area.

Trespassing in this area shall be strictly prohibited. Warning signs, labels, and safety ropes or a fence shall be provided to prevent trespassing.

12.5 Radiations Work

Posters showing the rated power output, that radiation is taking place, no entry allowed, and the danger to be displayed where radiation work is being carried out. Before starting the radiation work, the restricted area shall be checked to confirm that no unauthorized persons are in the area and to reconfirm it during the radiation work.

Radiation apparatus shall be operated by a radiation supervisor or an assistant authorized by a radiation supervisor.

All workers entering the restricted area shall wear badges sensitive to radiation.

12.6 Storage of Radioactive Materials

Radiation materials shall be stored separately from other material or equipment. The storage place of radioactive materials shall be 10 centimeters or more above the ground and locked to prevent accident. Radiation materials shall be stored in the container made of lead of ample thickness with a lock.

12.7 Emergency Action

In case of trouble, accident, or loss of radioactive materials, the following provisions shall apply:

1) When radioactive material is in an abnormal state due to mechanical fault in the radiation apparatus, the position of the radioactive material shall be checked with a meter, and the position shall be shielded by a lead plate to prevent radiation from dispersing.

2) When a capsule or holder of radioactive material is dropped, the area shall be designated a restricted zone, and this zone shall be examined by a meter. (Geiger counter)

3) When radioactive material is scattered from a broken capsule, the contaminated area shall immediately be declared a restricted zone.

4) All workers shall be evacuated immediately from an area where hazardous radiation is forecast.

13. SANITATION

13.1 General

All personnel engaged in the construction work shall pay much attention to maintenance of a clean and sanitary condition in the construction area and temporary facility area.

13.2 Toilet

The temporary sewer system, including septic tanks, piping and manholes, will be provided and installed prior to construction work.

Toilet facilities up to and including the connection to the nearest manhole of the temporary sewer system shall be provided and installed in the temporary facilities area subject to prior approval of Employer. Toilet in the construction area shall be of portable type.

Toilet rooms shall be kept in good sanitary condition. They shall be cleaned at least daily.

13.3 Refuse Disposal

The sufficient covered garbage containers should be provided at all necessary places of their responsibility to ensure adequate storage capacity during the construction work.

The containers shall be kept clean and emptied when full, but not less than once a day.

13.4 Epidemic Diseases

Whoever finds suspicious conditions of a person possibly affected by an epidemic disease, he must report immediately to the Contractor's Administration Manager the name of the person and necessary information.

In a case of suspected food poisoning or an unusual prevalence of any illness in which fever, diarrhea, sore throat, vomiting, or jaundice is a prominent symptom, Safety Manager must report the outbreak immediately to the local Health Authority and office concerned.

HARDWARE & SOFTWARE FACILITIES IN CENTRAL OFFICE

Hardware Facilities in Central office:

- *Computer* *33*
- *Laptop* *5*
- *Hub 16 Port* *2*
- *Printer* *13*
- *Fax & Scanner* *6*
- *Copy Set* *6*
- *Digital Camera* *2*

Software Facilities:

- *"Hamkaran System"*
- *"Ahdaf" Warehousing Software*
- *AutoCAD*
- *Cad Works*
- *Mechanical Desktop*
- *Cable Sizing & Calculation*
- *"Calculux" Illumination Software*
- *"Raycham" Heat Tracing Software*
- *Fluent*
- *Career*
- *Primavera*
- *Microsoft Project*
- *Photoshop*
- *Office Package*
- *Pipe Flow*
- *SF Pressure Drop 5*

LEGAL STATUS

شماره۱۷۳۴۵/ت۳۲ — ۱۳۸۷/۶/۱۱

آگهی تصمیمات شرکت بازرگانی الوند جاودان سهامی خاص
ثبت شده به شماره۲۲۵۴۰۲

طبق صورتجلسه مجمع عمومی عادی بطور فوق‌العاده مورخ ۸۷/۵/۱۶ شرکت مزبور که در تاریخ ۸۷/۵/۱۹ واصل گردید.
اعضاءهیئت‌مدیره به مدت ۲ سال به قرار زیرانتخاب گردیدند.
آقای عباس کوهستانی به سمت رئیس هیئت‌مدیره و مدیرعامل وخانم زهرا شفیعی بسمت نائب‌رئیس هیئت‌مدیره تعیین گردیدند امضاء کلیه اوراق و اسناد تعهدآور از جمله چک و سفته و برات و اوراق با امضاء مدیرعامل منفرداً همراه با مهر شرکت معتبرمی‌باشد.
پ۱۲۰۶۰۸۰۷۷۰ اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره۱۷۳۴۹/ت۳۲ — ۱۳۸۷/۶/۱۱

آگهی تصمیمات شرکت بین المللی کاتوان شرق سهامی خاص
ثبت شده به شماره۲۵۷۶۴۸

طبق صورتجلسه مجمع عمومی عادی سالیانه مورخ ۸۷/۴/۳۰ شرکت مزبور که در تاریخ ۸۷/۵/۲۲ واصل گردید.
ترازنامه و حساب سود و زیان سال مالی ۸۶ بتصویب رسید. آقای حسین احمدی بسمت بازرس اصلی وخانم فاطمه تمیمی بسمت بازرس علی‌البدل برای مدت یکسال انتخاب گردیدند روزنامه کثیرالانتشار ابرار جهت درج آگهی‌های شرکت تعیین گردید.
پ۱۲۰۶۰۵۹۶۶۷ اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره۱۷۳۳۴/ت۳۲ — ۱۳۸۷/۶/۱۱

آگهی تصمیمات شرکت کیوان سهامی عام
ثبت شده به شماره۱۰۴۳۶

به استناد صورتجلسه هیئت‌مدیره مورخ ۸۷/۵/۱۵ به موجب احکام صادره سعید شیرانی به نمایندگی شرکت تولی پرس ومهدی ایزدی حیدری به نمایندگی شرکت پخش البرز و علی محمد وحید کریمی به نمایندگی ازشرکت سرمایه گذاری البرز و محمدامجدی به نمایندگی ازشرکت البرزدارو و رحیم نعمت پرور به نمایندگی از شرکت تولید داروبه عنوان اعضای هیئت‌مدیره و مهدی ایزدی حیدری بسمت نائب‌رئیس هیات مدیره و رحیم نعمت پروربسمت مدیرعامل برای بقیه مدت تصدی انتخاب شدند.علی محمد وحید کریمی به سمت رئیس هیئت‌مدیره و مهدی ایزدی حیدری بسمت نائب‌رئیس هیئت‌مدیره و رحیم نعمت پرور به سمت مدیرعامل برای بقیه مدت تصدی انتخاب شدند.
امضای کلیه اوراق واسناد تعهد آور ازجمله چک و سفته و بروات و قراردادها و سایر اوراق بهادار و تعهدآور با امضای مدیرعامل ویکی از اعضای هیات مدیره همراه با مهر شرکت معتبر می‌باشد درغیاب مدیرعامل با امضای دو نفر از اعضای هیات مدیره و مهرشرکت و اوراق عادی با امضای مدیرعامل معتبراست و اختیارات مندرج دربندهای ۱الی ۴و۶و۹الی ۱۳و۱۷الی ۲۱ماده ۴۹ اساسنامه به مدیرعامل تفویض گردید واختیارات انجام معامله وانعقاد قراردادها و موضوع بند ۹ از ماده ۴۹ اساسنامه تا سقف ۱۵۰/۰۰۰/۰۰۰ریال به مدیرعامل تفویض گردید.
پ۱۲۰۶۰۵۹۱۵۴ اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره۱۷۳۳۶/ت۳۲ — ۱۳۸۷/۶/۱۱

آگهی تصمیمات شرکت سرمایه گذاری البرزسهامی عام
ثبت شده به شماره۷۱۱۴۸

طبق صورتجلسه مجمع عمومی فوق‌العاده مورخ ۸۷/۴/۳۰ شرکت مزبور که در تاریخ ۸۷/۵/۳ واصل گردید.
اساسنامه جدید مشتمل بر ۵۶ ماده و ۱۱ تبصره به تصویب رسید بموجب صورتجلسه هیئت‌مدیره مورخ ۸۷/۵/۱۴ آقایان مرتضی آرامی نیا نماینده بنیاد ۱۵ خرداد وعلی اشرف افخمی نماینده شرکت تولید داروپاسرجعفری بروانی نماینده شرکت تولی پرس سامان منوچهری نماینده شرکت صنعتی وسرمایه گذاری سینا وحسین سلیمی نماینده شرکت سرمایه گذاری اعتلاء البرزکه مرتضی آرامی نیا به سمت رئیس هیئت‌مدیره و علی اشرف افخمی به سمت نائب‌رئیس هیئت‌مدیره وسامان منوچهری بسمت مدیرعامل تعیین گردیدند امضا کلیه اوراق و اسناد تعهدآور از جمله چک و سفته و برات بالامضاء متفق مدیرعامل ویکی ازاعضای هیئت‌مدیره همراه بامهرشرکت ودرغیاب مدیرعامل با امضای متفق دو نفر از اعضای هیات مدیره همراه با مهر شرکت واوراق عادی ومراسلات با امضاء مدیرعامل همراه با مهر شرکت معتبر میباشد اختیارات مدیرعامل بشرح صورتجلسه مذکور است.
پ۱۲۰۶۰۵۹۰۴۹ اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره۱۷۳۳۵/ت۳۲ — ۱۳۸۷/۶/۱۱

آگهی تصمیمات شرکت بازرگانی تعاعدوحدت سهامی خاص
ثبت شده به شماره۱۴۶۶۱۸

باستناد صورتجلسه مجمع عمومی عادی سالیانه مورخ ۸۷/۴/۳۰

ترازنامه و حساب سود و زیان سال مالی منتهی ۸۶/۱۲/۲۹ بتصویب رسیدموسسه حسابرسی فریوران بسمت بازرس اصلی و جواد بستانیان به سمت بازرس علی البدل برای مدت یکسال تعیین شدند روزنامه کثیرالانتشار اطلاعات جهت درج آگهی‌های شرکت تعیین شد.
پ۱۲۰۶۰۵۹۳۵۸ اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره۱۷۳۳۷/ت۳۲ — ۱۳۸۷/۶/۱۱

آگهی تصمیمات شرکت تولیدداروسهامی عام
ثبت شده به شماره۵۱۱۸

طبق صورتجلسه مجمع عمومی عادی سالیانه مورخ ۸۷/۴/۲۹ شرکت مزبورکه درتاریخ ۸۷/۵/۳ واصل گردید.
ترازنامه و حساب سود و زیان سال مالی ۸۶ بتصویب رسیدموسسه حسابرسی وخدمات مدیریت پرسیان بکلیه سمت بازرس اصلی و آقای رسول مفیدی بسمت بازرس علی‌البدل برای مدت یکسال انتخاب گردیدند روزنامه کثیرالانتشار اطلاعات جهت درج آگهی‌های شرکت تعیین گردید اعضاء هیئت‌مدیره به مدت دوسال بقرار ذیل انتخاب گردیدند.
شرکتهای سرمایه گذاری البرز-تولی پرس -پخش البرز-البرزدارو-کیوان -
پ۱۲۰۶۰۵۹۹۴۱ اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره۱۷۳۵۱/ت۳۲ — ۱۳۸۷/۶/۱۱

آگهی تصمیمات شرکت آذرسنگان سهامی خاص
ثبت شده به شماره۱۲۳۸۴۰

طبق صورتجلسه مجمع عمومی عادی بطورفوق‌العاده وفوق‌العاده مورخ ۸۷/۵/۱۴ شرکت مزبور که در تاریخ ۸۷/۵/۳۰ واصل گردید.
خانم لیلا صحرانورد به بسمت بازرس اصلی و خانم زهره جلیل وند بسمت بازرس علی‌البدل برای مدت یکسال انتخاب گردیدند اعضاء هیئت‌مدیره به مدت دوسال بقرار ذیل انتخاب گردیدند.
خانم بهنازخاکیاز و آقای بابک خاکیاز و آقای مهران عرفانیان دلاورانتخاب شدند و محل قانونی شرکت به تهران -خیابان شریعتی کوچه بسطامی پلاک ۳ واحد۴ انتقال یافت و ماده مربوطه دراساسنامه اصلاح شد.
بموجب صورتجلسه هیئت‌مدیره مورخ ۸۷/۵/۱۸ آقایان مهران عرفانیان دلاوربسمت رئیس هیئت‌مدیره و خانم بهناز خاکیاز بسمت نائب‌رئیس هیئت‌مدیره و بابک خاکیاز بسمت مدیرعامل تعیین گردیدند امضا کلیه اوراق و اسناد تعهدآور از جمله چک و سفته و برات با امضا مشترک مدیرعامل ورئیس هیئت‌مدیره متفقا همراه با مهر شرکت معتبر میباشد.
پ۱۲۰۶۰۷۹۹۴۱ اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره۱۷۳۵۴/ت۳۲ — ۱۳۸۷/۶/۱۱

آگهی تصمیمات شرکت زلال اندیشه ایران سهامی خاص
ثبت شده به شماره۵۳۹۷۹

طبق صورتجلسه مجمع عمومی عادی سالیانه مورخ ۸۷/۴/۳۰ شرکت مزبور که در تاریخ ۸۷/۵/۳۰ واصل گردید.
ترازنامه و حساب سود و زیان سال مالی ۸۶ بتصویب رسیدموسسه حسابرسی وخدمات مالی بهرنگ روش بسمت بازرس اصلی و آقای حسین شیخی بسمت بازرس علی‌البدل برای مدت یکسال انتخاب گردیدند روزنامه کثیرالانتشار اطلاعات جهت درج آگهی‌های شرکت تعیین گردید.
پ۱۲۰۶۰۸۰۳۵۸ اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره۱۷۱۵۷/ت۳۲ — ۱۳۸۷/۶/۱۱

آگهی تصمیمات شرکت زلال سهامی خاص
ثبت شده به شماره۲۰۷۳۳۹

طبق صورتجلسه مجمع عمومی عادی سالیانه مورخ ۸۷/۴/۳۰ شرکت مزبور که در تاریخ ۸۷/۵/۳۰ واصل گردید.
ترازنامه و حساب سود و زیان سال مالی ۸۶ بتصویب رسید آقای عبدالناصرعطایی بسمت بازرس اصلی و آقای سینا بیگلری بسمت بازرس علی‌البدل برای مدت یکسال انتخاب گردیدند روزنامه کثیرالانتشار اطلاعات جهت درج آگهی های شرکت تعیین گردید.
پ۱۲۰۶۰۸۰۳۶۱ اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره۱۷۳۵۴/ت۳۲ — ۱۳۸۷/۶/۱۱

آگهی تصمیمات شرکت روکش چوبی فیروزکوه سهامی خاص
ثبت شده به شماره۵۴۵۴۸

طبق صورتجلسه مجمع عمومی عادی بطورفوق‌العاده مورخ ۸۷/۵/۱۲ شرکت مزبور که در تاریخ ۸۷/۵/۱۹ واصل گردید.
اعضاء هیئت‌مدیره به مدت دوسال بقرار ذیل انتخاب گردیدند.
آقای انور پاشا باقرپور و خانمها فهیمه معبر و مریم باقرپور به بموجب صورتجلسه هیئت‌مدیره مورخ ۸۷/۵/۱۲ آقایان انور پاشا باقرپور بسمت مدیرعامل رئیس هیئت‌مدیره و خانم فهیمه معبر بسمت نائب‌رئیس هیئت‌مدیره تعیین گردیدند. امضا کلیه اوراق و اسناد تعهدآور از جمله چک و سفته و برات واوراق عادی واداری ومراسلات با امضاء مدیرعامل بتنهایی همراه با مهر شرکت معتبر میباشد.
پ۱۲۰۶۰۸۰۱۵۲ اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره۱۷۳۵۳/ت۳۲ — ۱۳۸۷/۶/۱۱

آگهی تصمیمات شرکت روکش چوبی فیروزکوه سهامی خاص
ثبت شده به شماره۵۴۵۴۸

طبق صورتجلسه مجمع عمومی عادی بطور فوق‌العاده مورخ ۸۷/۵/۱۲ شرکت مزبور که در تاریخ ۸۷/۵/۱۹ واصل گردید.
آقای اکبراميری بسمت بازرس اصلی وآقای سعید برهان‌پناه بازرس علی البدل برای مدت یک سال انتخاب گردیدند روزنامه کثیرالانتشار اطلاعات جهت درج آگهی‌های شرکت تعیین گردید.
پ۱۲۰۶۰۸۰۲۵۵ اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره۱۷۳۴۳/ت۳۲ — ۱۳۸۷/۶/۱۱

آگهی تصمیمات شرکت نیروتوان سهامی خاص
ثبت شده به شماره۵۳۷۳۹

طبق صورتجلسه مجمع عمومی عادی سالیانه مورخ ۸۷/۴/۲۹ شرکت مزبور که در تاریخ ۸۷/۵/۲۰ واصل گردید.
ترازنامه و حساب سود و زیان سال مالی ۸۶ بتصویب رسید.آقای عبدالحسن عندلیب بسمت بازرس اصلی وموسسه بهبود ارقام بسمت بازرس علی البدل برای مدت یک سال انتخاب گردید روزنامه کثیرالانتشار ابرار جهت درج آگهی‌های شرکت تعیین گردیدند.
اعضا هیئت‌مدیره به مدت ۲ سال به قرار ذیل انتخاب گردیدند.
آقای منوچهرقضایی تهرانی وآقای مجتبی نبئی وآقای مهدی توفیق پوروآقای جواد حسینمردی وآقای مرتضی ترودیان.
پ۱۲۰۶۰۸۰۵۶۹ اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره۱۷۳۵۵/ت۳۲ — ۱۳۸۷/۶/۱۱

آگهی تصمیمات شرکت صنایع چوب عالم آرا سهامی خاص
ثبت شده به شماره۱۷۹۸۳۶

طبق صورتجلسه مجمع عمومی عادی سالیانه وفوق‌العاده مورخ ۸۷/۵/۱۷شرکت مزبور که در تاریخ ۸۷/۵/۲۲ واصل گردید.
آقای علی اکبراشرفی بسمت بازرس اصلی و وآقای محمدکجباف والا بسمت بازرس علی‌البدل برای مدت یکسال انتخاب گردیدند روزنامه کثیرالانتشار همشهری جهت درج آگهی‌های شرکت تعیین گردید اعضاء هیئت‌مدیره به مدت دوسال بقرار ذیل انتخاب گردیدند.
سید علی اصغربینش طریق -سیدمهدی بینش طریق - شهربانوصبوحی بسمت اعضای اصلی هیات مدیره ومنیره رضایی بسمت عضو علی البدل هیات مدیره-محل قانونی شرکت به جاده دماوندخ شهیدشوه (سازمان آب) -ک۳غربی-پ ۱انتقال یافت وماده ۴ اساسنامه اصلاح شد.
بموجب صورتجلسه هیئت‌مدیره مورخ۸۷/۵/۱۷آقایان علی اصغربینش طریق بسمت رئیس هیئت‌مدیره وسیدمهدی بینش طریق بسمت نائب‌رئیس هیئت‌مدیره ومدیرعامل تعیین گردیدندامضاء کلیه اوراق و اسناد تعهدآور از جمله چک و سفته و برات ونامه های عادی واداری با امضای منفردرئیس هیئت‌مدیره ویا مدیرعامل همراه با مهر شرکت معتبر میباشد.
پ۱۲۰۶۰۶۰۹۷۰ اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره۱۷۳۷۷/ت۳۲ — ۱۳۸۷/۶/۱۱

آگهی تصمیمات شرکت سمنان گچ سهامی‌خاص
ثبت‌شده‌بشماره۴۱۰۱۸

طبق صورتجلسه مجمع عمومی عادی سالیانه مورخ ۸۷/۴/۲۷ شرکت مزبور که در تاریخ ۸۷/۵/۸ واصل گردید.
ترازنامه و حساب سود و زیان سال مالی ۸۶ بتصویب رسید آقای داوودپهلوانی بسمت بازرس اصلی و آقای منوچهرمعماریان بسمت بازرس علی‌البدل برای مدت یکسال انتخاب گردیدند روزنامه کثیرالانتشار همشهری جهت درج آگهی‌های شرکت تعیین گردید.
پ۱۲۰۶۰۴۵۹۷۵ اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره۱۷۳۴۵/ت۳۲ — ۱۳۸۷/۶/۱۱

آگهی تصمیمات شرکت منحله تهران طب آریا درحال تصفیه سهامی خاص ثبت‌شده‌بشماره۲۱۳۹۴۷

باستناد صورتجلسه مجمع عمومی عادی بطورفوق‌العاده مورخ ۸۷/۵/۳۱ شرکت مذکور منحل اعلام وآقای هوشمند دلفانی نژادبسمت مدیرتصفیه بجای آقای حسن ترابی انتخاب ونشانی محل تصفیه تهران - خ بهشتی - ترسیده به م تختی خ کاووسی فر-ک نکیسا - پ ۳۲ انتخاب گردید.
پ۱۲۰۶۰۹۲۰۵۴ اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره ۳۲/۱۸۹۶۹ — ۱۳۸۱/۶/۱۱

آگهی تصمیمات شرکت مهندسی پتروبدم با مسئولیت محدود بشماره ثبت ۱۷۱۸۰۷

به موجب صورتجلسه مجمع عمومی فوق‌العاده و عادی بطورفوق‌العاده مورخ ۸۱/۵/۱۹ آقایان بهزاد رضاییان و محمدتقی عابدی هریک با دریافت مبلغی از صندوق شرکت سهم‌الشرکه خود را به میزان ۱۰۶۲۵۰۰ ریال و آقای سعید قاضی‌الشریف با دریافت مبلغی از صندوق شرکت سهم‌الشرکه خود را به میزان ۳۷۵۰۰۰ ریال کاهش دادند. درنتیجه سرمایه شرکت از مبلغ ۵۰۰۰۰۰۰ ریال به مبلغ ۴۱۵۰۰۰۰ ریال کاهش یافت و ماده ۴ اساسنامه بشرح فوق اصلاح گردید ماده ۱۴ اساسنامه بشرح مندرج در صورتجلسه اصلاح گردید.

درنتیجه آقایان امیر الماسی بسمت مدیرعامل و عضو هیئت مدیره بهزاد رضاییان بسمت عضو و رئیس هیئت مدیره محمدتقی عابدی و سعید قاضی‌الشریف وحمیدرضا گماز بسمت اعضای هیئت مدیره برای مدت نامحدود انتخاب گردیدند. کلیه اوراق و اسناد بهادار و تعهدآور شرکت با امضاء مدیرعامل و رئیس هیئت مدیره متفقاً همراه با مهر شرکت معتبر می‌باشد. مرکز اصلی شرکت به تهران، میدان توحید ابتدای خ ستارخان خ کوثر اول پ ۲۲۸ ط اول منتقل گردید. درنتیجه ماده ۳ اساسنامه بشرح فوق اصلاح گردید. اسامی شرکاء ومیزان سهم‌الشرکه هریک بشرح ذیل می‌باشد آقایان بهزاد رضاییان و محمدتقی عابدی ۱۰۶۲۵۰۰ ریال آقای سعید قاضی‌الشریف دارای ۳۷۵۰۰۰ ریال و آقای امیر الماسی دارای ۱۴۲۵۰۰۰ ریال آقای سعید قاضی‌الشریف گماز دارای ۱۰۰۰۰۰ ریال و آقای میرمسعود خزاقی دارای ۱۲۵۰۰۰ ریال سهم‌الشرکه می‌باشند.

۲۳۵۳[illegible] — اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره ۳۲/۱۸۶۳۶ — ۱۳۸۱/۶/۱۰

آگهی تصمیمات شرکت ساویر سهامی خاص ثبت شده بشماره ۴۳۲۵۵

طبق صورتجلسه مجمع عمومی عادی سالیانه مورخ ۸۱/۴/۲ شرکت مزبور که در تاریخ ۸۱/۵/۲۳ واصل گردید:

۱ـ ترازنامه وحساب سود و زیان سال مالی ۸۰ بتصویب رسید.

۲ـ آقای حسن امام جمعه بسمت بازرس اصلی و آقای رضا رمطهوری بسمت بازرس علی‌البدل برای مدت یکسال انتخاب گردیدند.

۳ـ روزنامه کثیرالانتشار ابرار جهت درج آگهی‌های شرکت تعیین گردید.

امضاء کلیه اوراق و اسناد تعهدآور از جمله چک و سفته و برات وغیره بامضاء دو نفر از اعضاء هیئت مدیره همراه با مهر شرکت و اوراق عادی و مراسلات بامضاء هریک از اعضای هیئت مدیره بتنهائی همراه با مهر شرکت معتبر است.

۲۳۵۳۶ — اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره ۳۲/۱۸۸۶۷ — ۱۳۸۱/۶/۱۱

آگهی تصمیمات شرکت بافندگی سمنان سهامی خاص ثبت شده بشماره ۵۰۹۵۰

طبق صورتجلسه مجمع عمومی عادی سالیانه مورخ ۸۱/۴/۲ شرکت مزبور که در تاریخ ۸۱/۵/۴ واصل گردید:

۱ـ ترازنامه وحساب سود و زیان سال مالی ۸۰ بتصویب رسید.

۲ـ آقای جواد توکلی بسمت بازرس اصلی و آقای هرمز رمزی بسمت بازرس علی‌البدل برای مدت یکسال انتخاب گردیدند.

۳ـ روزنامه کثیرالانتشار اطلاعات جهت درج آگهی‌های شرکت تعیین گردید.

۴ـ اعضاء هیئت مدیره به مدت دو سال بقرار ذیل انتخاب گردیدند. آقایان ناصر، کامران، کاوه، کیوان انادیشی، خانم طاهره عیسی

۲۳۵۳۷ — اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره ۳۲/۱۹۰۹۶ — ۱۳۸۱/۶/۱۲

آگهی تصمیمات شرکت مهندسی پایاخودرو سهامی خاص ثبت شده بشماره ۱۶۱۲۰۱

طبق صورتجلسه مجمع عمومی فوق‌العاده و عادی بطورفوق‌العاده مورخ ۸۱/۳/۲۴ شرکت مزبور که در تاریخ ۸۱/۵/۱ واصل گردید:

۱ـ اعضاء هیئت مدیره به مدت دو سال بقرار ذیل آقایان محسن لـندی، عبدالحمید جنانه و محمدعلی ... انتخاب گردیدند.

شماره ۳۲/۱۷۹۴۳ — ۱۳۸۱/۶/۶

آگهی تصمیمات شرکت گرمانات (سهامی خاص) ثبت شده بشماره ۳۹۲۴۹

طبق صورتجلسه مجمع عمومی عادی سالیانه مورخ ۸۱/۴/۱۶ شرکت مزبور که در تاریخ واصل گردید:

۱ـ ترازنامه وحساب سود و زیان سال مالی ۸۰ بتصویب رسید.

۲ـ آقای حسن علی نیا بسمت بازرس اصلی و آقای مهدی محبت بسمت بازرس علی‌البدل برای مدت یکسال انتخاب گردیدند.

۳ـ روزنامه کثیرالانتشار جمهوری اسلامی جهت درج آگهی‌های شرکت تعیین گردید.

۴ـ اعضاء هیئت مدیره به مدت دو سال بقرار ذیل آقای احمد برنج جی بسمت عضو هیئت مدیره ومدیرعامل آقای نصراله حقوقی بسمت عضو رئیس هیئت مدیره خانم فرزانه ملکی بسمت عضو و نایب رئیس هیئت مدیره انتخاب گردیدند.

پ ۲۳۵۴۰ — اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره ۳۲/۱۸۹۰۵ — ۱۳۸۱/۶/۱۱

آگهی تصمیمات شرکت ناورود سهامی خاص ثبت شده بشماره ۴۱۳۳۱

طبق صورتجلسه مجمع عمومی عادی سالیانه مورخ ۸۱/۴/۱۱ شرکت مزبور که در تاریخ ۸۱/۵/۱۷ واصل گردید:

۱ـ ترازنامه وحساب سود و زیان سال مالی ۸۰ بتصویب رسید.

۲ـ آقای حسین رادمان بسمت بازرس اصلی و آقای جاوید گلچین بسمت بازرس علی‌البدل برای مدت یکسال انتخاب گردیدند.

۳ـ روزنامه کثیرالانتشار اطلاعات جهت درج آگهی‌های شرکت تعیین گردید.

۴ـ اعضاء هیئت مدیره بقرار ذیل آقایان علی اصغر غفاری بسمت رئیس هیئت مدیره و ابوالقاسم شیخ بیکی بسمت نایب رئیس هیئت مدیره و آقای علی شیخ‌بیگی بسمت مدیرعامل وجعفر خضری بسمت عضو هیئت مدیره برای مدت دو سال انتخاب شدند.

پ ۲۳۵۴۴ — اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره ۳۲/۱۸۶۶۳ — ۱۳۸۱/۶/۱۰

آگهی تصمیمات شرکت نیرو توان سهامی خاص ثبت شده بشماره ۵۳۷۲۹

طبق صورتجلسه مجمع عمومی عادی سالیانه مورخ ۸۱/۴/۲۵ شرکت مزبور که در تاریخ ۸۱/۵/۶ واصل گردید:

۱ـ ترازنامه وحساب سود و زیان سال مالی ۸۰ بتصویب رسید.

۲ـ آقای عبدالحسین عندلیبی بسمت بازرس اصلی و آقای احمد پورباقر بسمت بازرس علی‌البدل برای مدت یکسال انتخاب گردیدند.

۳ـ روزنامه کثیرالانتشار همشهری جهت درج آگهی‌های شرکت تعیین گردید.

۴ـ اعضاء هیئت مدیره به مدت دو سال بقرار ذیل انتخاب گردیدند. آقایان منوچهر فدایی تهرانی، مجتبی نیشی، مهدی توفیق‌پور، جواد حسین مردی، مرتضی دروديان.

آقایان مجتبی نیشی بسمت رئیس هیئت مدیره مهدی توفیق‌پور بسمت نایب رئیس هیئت مدیره و منوچهر فدایی تهرانی بسمت مدیرعامل تعیین گردیدند و امضاء کلیه اوراق و اسناد تعهدآور از جمله چک، سفته و برات وغیره بامضاء ثابت مدیرعامل باتفاق امضاء یکی دیگر از اعضاء هیئت مدیره همراه بامهر شرکت معتبر است.

پ ۲۳۵۴۷ — اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره ۳۲/۱۹۰۴۵ — ۱۳۸۱/۶/۱۲

آگهی تصمیمات شرکت استار سهامی خاص ثبت شده بشماره ۸۵۲۷۷

طبق صورتجلسه مجمع عمومی عادی سالیانه مورخ ۸۱/۴/۲۳ شرکت مزبور که در تاریخ ۸۱/۵/۲۰ واصل گردید:

۱ـ ترازنامه وحساب سود و زیان سال مالی ۸۰ بتصویب رسید.

۲ـ آقای محمد ایزدفرد بسمت بازرس اصلی و آقای عیسی عیسی‌خانی بسمت بازرس علی‌البدل برای مدت یکسال انتخاب گردیدند.

۳ـ روزنامه کثیرالانتشار اطلاعات جهت درج آگهی‌های شرکت تعیین گردید.

پ ۲۳۵۵۰ — اداره ثبت شرکتها و مؤسسات غیرتجاری

۲ـ مؤسسه حسابرسی و خدمات مدیریت حساب گستر بسمت بازرس اصلی و آقای ابوالفضل نیکوکار بسمت بازرس علی‌البدل برای مدت یکسال انتخاب گردیدند.

۳ـ روزنامه کثیرالانتشار اطلاعات و همشهری جهت درج آگهی‌های شرکت تعیین گردید.

۴ـ اعضاء هیئت مدیره به مدت دو سال بقرار ذیل انتخاب گردیدند. ۱ـ سازمان اقتصاد کوثر ۲ـ مدیریت سرمایه‌گذاری بانک ملی ایران ۳ـ شرکت سرمایه‌گذاری ملی ایران به نمایندگی سیدمصطفی صفاری ۴ـ شرکت تکلم (سهامی خاص) ۵ـ محمد سالاریه.

۵ـ بموجب صورتجلسه هیئت مدیره مورخ ۸۱/۵/۲ آقایان فیروز دولت‌آبادی به نمایندگی از سازمان اقتصادی کوثر بسمت رئیس هیئت مدیره و فریدون عندلیب به نمایندگی شرکت مدیریت سرمایه‌گذاری بانک ملی ایران به سمت نایب رئیس هیئت مدیره علی نقیب بغدادآبادی به نمایندگی از شرکت تکلم بسمت مدیرعامل و عضو هیئت مدیره تعیین گردیدند و امضاء کلیه اوراق و اسناد تعهدآور از جمله چک و سفته و برات وغیره به امضاء دو نفر از اعضاء هیئت مدیره همراه با مهر شرکت معتبر است.

پ ۲۳۵۴۸ — اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره ۳۲/۱۹۱۰۵ — ۱۳۸۱/۶/۱۲

آگهی تصمیمات شرکت صنایع الکتریک ایران سایتا سهامی خاص ثبت شده بشماره ۷۶۳۱۹

طبق صورتجلسه مجمع عمومی عادی سالیانه مورخ ۸۱/۴/۲۶ شرکت مزبور که در تاریخ ۸۱/۵/۲۰ واصل گردید:

۱ـ ترازنامه وحساب سود و زیان سال مالی ۸۰ بتصویب رسید.

۲ـ مؤسسه حسابرسی رهیافت حساب تهران بسمت بازرس اصلی و آقای حسن شیرازی بسمت بازرس علی‌البدل برای مدت یکسال انتخاب گردیدند.

۳ـ روزنامه کثیرالانتشار اطلاعات جهت درج آگهی‌های شرکت تعیین گردید.

۴ـ اعضاء هیئت مدیره به مدت دو سال بقرار ذیل انتخاب گردیدند. آقای عباس نصیری آقای بهمن افراشته آقای محمد نصیری

۵ـ بموجب صورتجلسه هیئت مدیره مورخ ۸۱/۴/۲۶ آقای عباس نصیری بعنوان رئیس هیئت مدیره و آقای محمد نصیری بعنوان نایب رئیس هیئت مدیره و آقای پرویز غیاث‌الدین خارج از اعضاء بسمت مدیرعامل انتخاب گردیدند وامضاء کلیه اوراق و اسناد بهادار و تعهدآور با امضاء دو نفر از چهارنفر (سه نفر اعضاء هیئت مدیره و مدیرعامل) همراه با مهر شرکت معتبر است و اوراق عادی و اداری با امضاء مدیرعامل بتنهائی همراه با مهر شرکت معتبر است.

پ ۲۳۵۴۹ — اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره ۳۲/۱۹۰۱۷ — ۱۳۸۱/۶/۱۱

آگهی تصمیمات شرکت تولیدی اطمینان بخش سهامی خاص ثبت شده بشماره ۴۶۸۳۰

طبق صورتجلسه مجمع عمومی عادی سالیانه مورخ ۸۱/۴/۲۷ شرکت مزبور که در تاریخ ۸۱/۵/۲۸ واصل گردید:

۱ـ آقای محمد شیخی سکاچایی بسمت بازرس اصلی و خانم لیا فلاح زهری بسمت بازرس علی‌البدل برای مدت یکسال انتخاب گردیدند.

۲ـ روزنامه کثیرالانتشار اطلاعات جهت درج آگهی‌های شرکت تعیین گردید.

۳ـ اعضاء هیئت مدیره به مدت دو سال بقرار ذیل انتخاب گردیدند. آقای عاقل کهن، خانم فروغ اطمینان و آقای سهراب عاقل کهن.

۴ـ بموجب صورتجلسه هیئت مدیره مورخ ۸۱/۴/۲۷ آقایان سهراب عاقل کهن بسمت رئیس هیئت مدیره و مدیرعامل و خانم فروغ اطمینان بسمت نایب رئیس هیئت مدیره تعیین گردیدند. امضاء کلیه اوراق و اسناد تعهدآور از جمله چک و سفته و برات وغیره بامضاء مدیرعامل همراه با مهر شرکت و اوراق عادی و مراسلات بامضاء مدیرعامل همراه با مهر شرکت معتبر است.

پ ۲۳۵۵۸ — اداره ثبت شرکتها و مؤسسات غیرتجاری

شماره ۳۲/۱۵۵۷۲ — ۱۳۸۱/۵/۱۹

آگهی تصمیمات شرکت تولیدی بتون ماشین سهامی خاص ثبت شده بشماره ۵۵۹۴۴

شماره ۱۷۹۴۵ روزنامه رسمی ۱۳۸۵/۷/۲۱ صفحه ۳۳

آگهی تصمیمات شرکت حمل و نقل بین المللی آریان
سهامی خاص ثبت شده به شماره ۱۲۸۱۷

آگهی تصمیمات شرکت نیرو و توان
سهامی خاص ثبت شده به شماره ۵۲۷۲۹

آگهی تصمیمات شرکت سازنده توربو کمپرسور
سهامی خاص ثبت شده به شماره ۸۶۳۰

آگهی تصمیمات شرکت تهران سلوژ
سهامی خاص ثبت شده به شماره ۵۹۲۰

آگهی تصمیمات شرکت مدیریت و پروژه های نیروگاهی ایران
مپنا سهامی عام بشماره ثبت ۹۹۱۲۴

آگهی تصمیمات شرکت استخراجی گرگان
سهامی خاص ثبت شده به شماره ۱۱۷۲۲۴

آگهی تصمیمات شرکت کالسه لمه و لاستیک البرز
سهامی خاص ثبت شده به شماره ۲۷۸۸۵

آگهی تصمیمات شرکت تلویزود
سهامی خاص ثبت شده به شماره ۲۱۴۲۱

آگهی تصمیمات شرکت کارگزاری پارسیان کالای کشاورزی
سهامی خاص بشماره ثبت ۲۲۰۱۰۲

آگهی تصمیمات شرکت سرمایه گذاری البرز
سهامی عام ثبت شده بشماره ۱۱۶۸

آگهی تصمیمات شرکت علوم وصنعت ایران
سهامی خاص بشماره ثبت ۵۸۴۴۲

آگهی تصمیمات شرکت تولیدی و شیمیایی پاکدشت
سهامی خاص ثبت شده بشماره ۱۵۲۸۱

آگهی تصمیمات شرکت کشت و صنعت بالاوجه
سهامی خاص ثبت شده بشماره ۲۲۴۲۲

آگهی تصمیمات شرکت مرغداری پارسیان
سهامی خاص ثبت شده بشماره ۲۰۲۲۶

آگهی تصمیمات شرکت کشاورزی گندم کارای سامی
سهامی خاص ثبت شده بشماره ۱۸۲۲۱۶

شماره ۱۱۵۹۲ روزنامه رسمی ۱۳۹۳/۸/۱۴ صفحه ۱۲

شماره ۹۱/۱۲۵۷۸

آگهی تغییرات درشرکت کارترابر بامسئولیت‌محدود

اداره ثبت شرکتها و مؤسسات غیر تجاری تهران

شماره ۹۱/۱۲۵۸۱

آگهی تغییرات درشرکت مهندسی پزشکی عادل بامسئولیت‌محدود

اداره‌ثبت‌شرکتها و مؤسسات غیر تجاری تهران

شماره ۹۱/۱۲۹۱۲ ۱۳۹۳/۸/۱۱

آگهی تاسیس شرکت

خلاصه اظهارنامه و اساسنامه شرکت صنعتی نیرو و توان سهامی خاص که در تاریخ [illegible] تحت شماره [illegible] دراین اداره به ثبت رسیده و در تاریخ [illegible] از لحاظ امضاء ذیل ثبت تکمیل گردیده برای اطلاع عموم در روزنامه رسمی و کثیرالانتشار کیهان آگهی میشود:

۱- موضوع شرکت: انجام خدمات فنی برای مجتمع‌های تولید و انتقال نیرو و انرژی و مجتمع‌های صنعتی و نیروگاهی شامل مهندسی، طراحی، نصب، راه‌اندازی، [illegible] نگهداری، تعمیرات و آموزش و تولید و پیمانکاری در زمینه‌های فوق و قبول و ایجاد نمایندگی و تاسیس شعب و خرید و فروش و واردات و صادرات و هرگونه فعالیت که در حدود حوزه کار شرکت باشد.

۲- مدت شرکت: [illegible] بمدت نامحدود.

۳- مرکز اصلی شرکت: تهران خیابان جامی کوی کسری بن‌بست دوم کسری پلاک [illegible] تلفن [illegible]

۴- سرمایه شرکت: مبلغ [illegible] ریال منقسم به یکصد سهم [illegible] ریالی با نام که مبلغ [illegible] ریال آن طبق گواهی فیش [illegible] بانک صادرات شعبه مستقل جمهوری اسلامی بحسابجاری [illegible] واریز گردید.

۵- اولین مدیران و دارندگان حق امضاء: آقای مهندس حسین رضازاده [illegible] رئیس هیئت‌مدیره، عباس [illegible] مدیرعامل و مهندس محمود حسنی نایب‌رئیس هیئت‌مدیره، مهندس جواد [illegible] عضو هیئت‌مدیره انتخاب و حق امضاء کلیه‌اوراق و اسناد تعهدآور با آقای عباس [illegible] مدیرعامل و یکی از اعضاء هیئت‌مدیره متفقاً و با مهر شرکت معتبر میباشد.

۶- اختیارات مدیرعامل: [illegible] مصوبات هیئت‌مدیره میباشد.

۷- بازرس اصلی و علی‌البدل: خانم سیما تاجبخش [illegible] بازرس اصلی [illegible] بازرس علی‌البدل انتخاب شدند.

اداره ثبت شرکتها و مؤسسات غیرتجاری تهران

ق [illegible] ۱۱۹۱۲-۷

شماره ۹۱/۱۲۵۸۹

آگهی تصمیمات شرکت ساختمانی اردیبهشت سهامی‌خاص

اداره‌ثبت‌شرکتها و مؤسسات غیر تجاری تهران

شماره ۹۱/۱۲۵۹۰

آگهی تصمیمات شرکت ریسندگی وبافندگی ری سهامی‌عام

اداره‌ثبت شرکتها و مؤسسات غیر تجاری تهران

شماره ۹۱/۱۲۵۸۹

آگهی تغییرمحل درشرکت بافندگی [illegible] بامسئولیت محدود

اداره ثبت شرکتها و مؤسسات غیر تجاری تهران

شماره ۹۱/۱۲۵۹۹

آگهی انحلال شرکت [illegible] سهامی‌خاص

اداره‌ثبت‌شرکتها و مؤسسات غیر تجاری تهران

آگهی تغییرات در شرکت [illegible] سهامی خاص

اداره ثبت شرکتهای مؤسسات غیرتجاری تهران

آگهی تاسیس

اداره ثبت شرکتها و مؤسسات غیرتجاری تهران

آگهی تاسیس شرکت

اداره ثبت شرکتها و مؤسسات غیر تجاری تهران

APEC

Association of Petroleum Industry Engineering and Construction Companies

Registrated at The Ministry of Labor and Social Affairs : No. : 216 Dated : Dec. 11,2000

Tehran - Iran

MEMBERSHIP CERTIFICATE

Niroo Va Tavan Co.(P.J.S)

Registration No. : 53749 Dated : 1984 - Tehran

Membership No. : 81042

Issued on : September 2007

Member Since : May 2002

Valid up to : September 2010

Chairman: M. H. Torabi

General Secretary: M. H. Imam Jomeh Zadeh

Certificate of Registration

MOODY INTERNATIONAL

This is to certify that the company

Niroo Va Tavan Co.

No.22, 21 (Talebi) St., Ebnesina Ave., Yousef Abad, Tehran-Iran

has implemented and maintains an

Integrated Quality, Environmental and Occupational Health and Safety, Management System

For the Scope of:

Engineering, Procurement and Construction (EPC) of Oil, Gas and Petrochemical Projects

An audit, documented in a report, has verified that this integrated management system fulfills the requirements of the following standards:

BS EN ISO 9001:2015
BS EN ISO 14001:2015
OHSAS 18001:2007
ISO/TS 29001:2010
HSE-MS

The validity of this Certificate is based on the validity of the MIC Certificates issued for each standard separately, with the following registration numbers:

10111608367	(Certificate BS EN ISO 9001:2015)
10121608064	(Certificate BS EN ISO 14001:2015)
1109116	(Certificate OHSAS 18001:2007)
1608039	(Certificate ISO/TS 2901:2010)
110904	(Certificate HSE-MS)

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