



شرایط شرکت در مناقصه: ۱-۱۴۰۴/۱۲۶

۱- ارائه پاکت مخصوص ارسال مدارک با محتویات مربوطه.

۲- به پیشنهادات مبهم، بدون امضاء، دریافت شده پس از موعد مقرر، فاقد سپرده و شروطی که موجب تنزل کیفیت فنی و یا افزایش بار مالی باشد ترتیب اثر داده نخواهد شد.

۳- پیشنهادات رسیده در کمیسیون معاملات مفتوح و از بین پیشنهادات، پیشنهادی که از نظر فنی مورد قبول و دارای قیمت پیشنهادی پائین تری باشد برنده اعلام خواهد شد.

۴- هر گونه مالیات، عوارض و کسورات قانونی به عهده برنده مناقصه می باشد، که در صورت لزوم در موقع پرداخت از بهای کالا یا صورت وضعیت کارکرد کسر گردیده و به حساب برنده مناقصه به سازمان مربوطه پرداخت خواهد شد. ارزش افزوده در صورت شمول و ارائه اسناد مثبت به عهده ی خریدار میباشد، لذا پیشنهاد قیمت بدون مالیات بر ارزش افزوده ارائه گردد.

۵- در صورتیکه برنده مناقصه حاضر به انجام معامله نگردد یا تعهدات سفارش را به طور کامل اجرا ننماید، سپرده وی ضبط و با نفر دوم معامله صورت می پذیرد و در صورتی که برنده دوم نیز از انجام معامله و یا از تکمیل تعهدات سفارش ارجاع شده امتناع نماید، سپرده وی نیز ضبط خواهد شد.

۶- سپرده مناقصه یا ضمانت نامه نفرات اول و دوم تا مرحله عقد قرارداد و یا تحویل کامل محوله های مورد تعهد نزد ایران ترانسفو باقی خواهد ماند و برای نفرات غیر برنده حداکثر ۴۵ روز پس از بازگشایی پاکتها آزاد خواهد شد.

۷- هیچ پیشنهاد دهنده ای حق تماس با خریدار از زمان بازگشایی پاکت ها تا مرحله انعقاد قرارداد یا قطعی شدن سفارش را ندارد.

۸- هر گونه اعمال نفوذ در بررسی فنی و بازرگانی توسط پیشنهاد دهنده از هنگام بازگشایی پاکتها تا قطعی شدن سفارش یا انعقاد قرارداد برای خریدار منجر به رد پیشنهاد خواهد شد.

۹- پیشنهادات قیمت بایستی خوانا و بدون قید و شرط در داخل پاکت در بسته، تا پایان مهلت درج شده در مدارک مناقصه، به واحد حراست شرکت ایران ترانسفو کارخانجات زنجان تحویل گردد.

۱۰- محل تحویل کالا، انبار کارخانجات ایران ترانسفو زنجان بوده و کلیه ی هزینه های مربوطه اعم از حمل و نقل، بارگیری، تخلیه، خرج بنگاه، باسکول، بیمه و ... به عهده ی فروشنده می باشد.

۱۱- در صورت تشخیص شرکت ایران ترانسفو، بازرسی در محل محموله یا ارزیابی تامین کننده، قبل از حمل انجام خواهد شد.

۱۲- بهای کالا و خدمات ارائه شده، پس از دریافت و تایید آن تامین کننده پرداخت خواهد شد.

۱۳- این شرکت از دریافت مقدار مازاد بر نیاز معذور بوده و مقدار مازاد به هزینه تامین کننده عودت خواهد شد.

۱۴- شرکت ایران ترانسفو حق واگذاری کل آیتیم های مناقصه و یا واگذاری به صورت تفکیک شده را برای خود محفوظ می دارد.

۱۵- شرکت ایران ترانسفو در افزایش یا کاهش میزان درخواست با همان قیمتهای ارائه شده در مناقصه مختار است ( تا سقف ۲۵٪ ).

۱۶- با عنایت به اهمیت زمان تحویل اقلام در انتخاب تامین کننده، زمان نیازهای مندرج در اسناد مناقصه در ارائه پیشنهاد قیمت بایستی مد نظر قرار گیرد، به نحوی که بلافاصله پس از ابلاغ سفارش و یا بازرسی در محل، قابل بارگیری و ارسال باشد.

۱۷- شرکت ایران ترانسفو در رد کلیه یا قبول هر یک از پیشنهادات مختار است.

۱۸- بازگشایی پاکات بصورت غیر حضوری انجام خواهد شد.

۱۹- سایر اطلاعات و جزئیات در اسناد مناقصه مندرج می باشد.

۲۰- هزینه چاپ آگهی در روزنامه های تعیین شده بر عهده برنده مناقصه می باشد.

۲۱- ارائه فاکتور رسمی برای برنده مناقصه الزامی است.

۲۲- پاکت "الف" و "ب" باید به صورت مجزا و مشخص شده، در پاکت در بسته و لاک و مهر شده قرار گرفته و توسط پست پیشتاز و یا به صورت دستی به نحوی ارسال شوند که در ساعت اداری و تا پایان مهلت درج شده در مدارک مناقصه از طریق واحد حراست دریافت گردد.

موارد فوق روئیت گردید و مورد قبول اینجانب ..... مدیر / مسئول، شرکت / فروشگاه ..... می باشد .

نام و نام خانوادگی

امضاء و مهر شرکت

کد: ۳۹.۳-۳

1.9,44





ایران ترانسفو

## برگ استعلام فنی (فرم الف)

شماره مناقصه: ۱-۱۴۰۴/۱۲۶

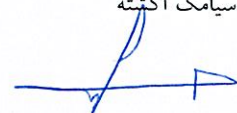
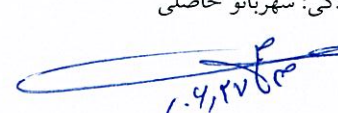
شماره پرونده خرید: GPSA1404-0231

تاریخ: ۱۴۰۴/۰۶/۲۷

ردیف	شرح کالا	کد کالا	مشخصات فنی مورد نظر	مشخصات فنی قابل تامین از جانب تامین کننده
۱	توربو کمپرسور	۹۳۵۷۴۷	مطابق مشخصات پیوست	
۲	مخزن هماهنگ کننده	۹۳۵۷۵۶	مطابق مشخصات پیوست	
۳	درایر تبریدی	۹۳۵۷۶۸	مطابق مشخصات پیوست	
۴	فیلتر اولیه	۹۳۵۷۹۰	مطابق مشخصات پیوست	
۵	فیلتر ثانویه	۹۳۵۷۹۲	مطابق مشخصات پیوست	
۶	واتر ترپ	۹۳۵۸۰۲	مطابق مشخصات پیوست	

## توضیحات:

- در پیشنهاد فنی ارسالی حتما به مدت اعتبار پیشنهاد قیمت، گارانتی، خدمات پس از فروش، هزینه حمل، هزینه نصب و راه اندازی و زمان تحویل اشاره گردد.
- هزینه چاپ آگهی ها برعهده برنده مناقصه می باشد که در موقع پرداخت از بهای کالا یا صورت حساب کسر می گردد.

تنظیم	تایید	تایید مدیر / مسئول تامین کننده
نام و نام خانوادگی: سیامک آگشته امضاء و تاریخ: 	نام و نام خانوادگی: شهریانو حاصلی امضاء و تاریخ: 	نام و نام خانوادگی: امضاء و تاریخ:

(در پاکت (الف) قرار داده شود. مهلت ارائه پیشنهاد تا تاریخ ۱۴۰۴/۰۷/۰۵ می باشد)



ایران ترانسفو

## برگ استعلام بهاء (فرم ب)

شماره مناقصه: ۱-۱۴۰۴/۱۲۶

شماره پرونده خرید: GPSA1404-0231

تاریخ: ۱۴۰۴/۰۶/۲۷

ردیف	کد کالا	شرح کالا	مقدار نیاز	واحد	قیمت واحد بدون ارزش افزوده (ریال)	قیمت کل بدون ارزش افزوده (ریال)	زمانبندی نیاز
۱	۹۳۵۷۴۷	توربو کمپرسور	دو	دستگاه			
۲	۹۳۵۷۵۶	مخزن هماهنگ کننده	دو	دستگاه			
۳	۹۳۵۷۶۸	درایر تبریدی	دو	دستگاه			
۴	۹۳۵۷۹۰	فیلتر اولیه	دو	دستگاه			
۵	۹۳۵۷۹۲	فیلتر ثانویه	دو	دستگاه			
۶	۹۳۵۸۰۲	واتر ترپ	دو	دستگاه			

## توضیحات:

- کسورات قانونی به عهده فروشنده می باشد.
- به تاریخ اعتبار قیمت حتما اشاره گردد.
- شرایط پرداخت و شرایط تحویل و نوع تضمین پرداخت در پیشنهاد ارسالی حتما قید گردد.
- پرداخت ها فقط به حساب شرکتي صورت خواهد گرفت و امکان پرداخت به حساب شخصی وجود ندارد.
- فاکتور خرید بایستی مطابق فرمت مورد تایید اداره دارایی و با درج کد اقتصادی و کد پستی و نشانی و تلفن کامل فروشنده ارسال گردد.

تایید	تنظیم
نام و نام خانوادگی: شهرانو حاصلی امضاء و تاریخ: ۱۴۰۴/۰۶/۲۷	نام و نام خانوادگی: سیامک آگشته امضاء و تاریخ:

اینجانب آقا/خانم..... مدیر/مسئول، شرکت/فروشگاه..... اعلام می دارم که در تاریخ..... با مطالعه و قبول کلیه موارد مندرج در شرایط واگذاری پیمان نسبت به ارائه قیمت طبق مشخصات اقدام نموده و هیچ گونه دلیلی مبنی بر عدم آگاهی از شرایط واگذاری ندارم.

مهر و امضاء

(در پاکت (ب) قرار داده شود. مهلت ارائه پیشنهاد تا تاریخ ۱۴۰۴/۰۷/۰۵ می باشد)

Subject 1:

# DATA SHEET FOR MECHANICAL EQUIPMENT COMPRESSED AIR SYSTEM





## 1)- SPECIFICATION:

The capacity of air compressors is based on tapping requirement  
And other consumers at peak flow rate.

Air compressors should be equipped with advanced electric

Compressor control including :

- Automatic sequences shift
- Manual starting and stopping of the complete installation to  
Achieve the lowest cost compressed air long effective time.

### 1-1)- COMPRESSOR:

The compressor specification are as follows:

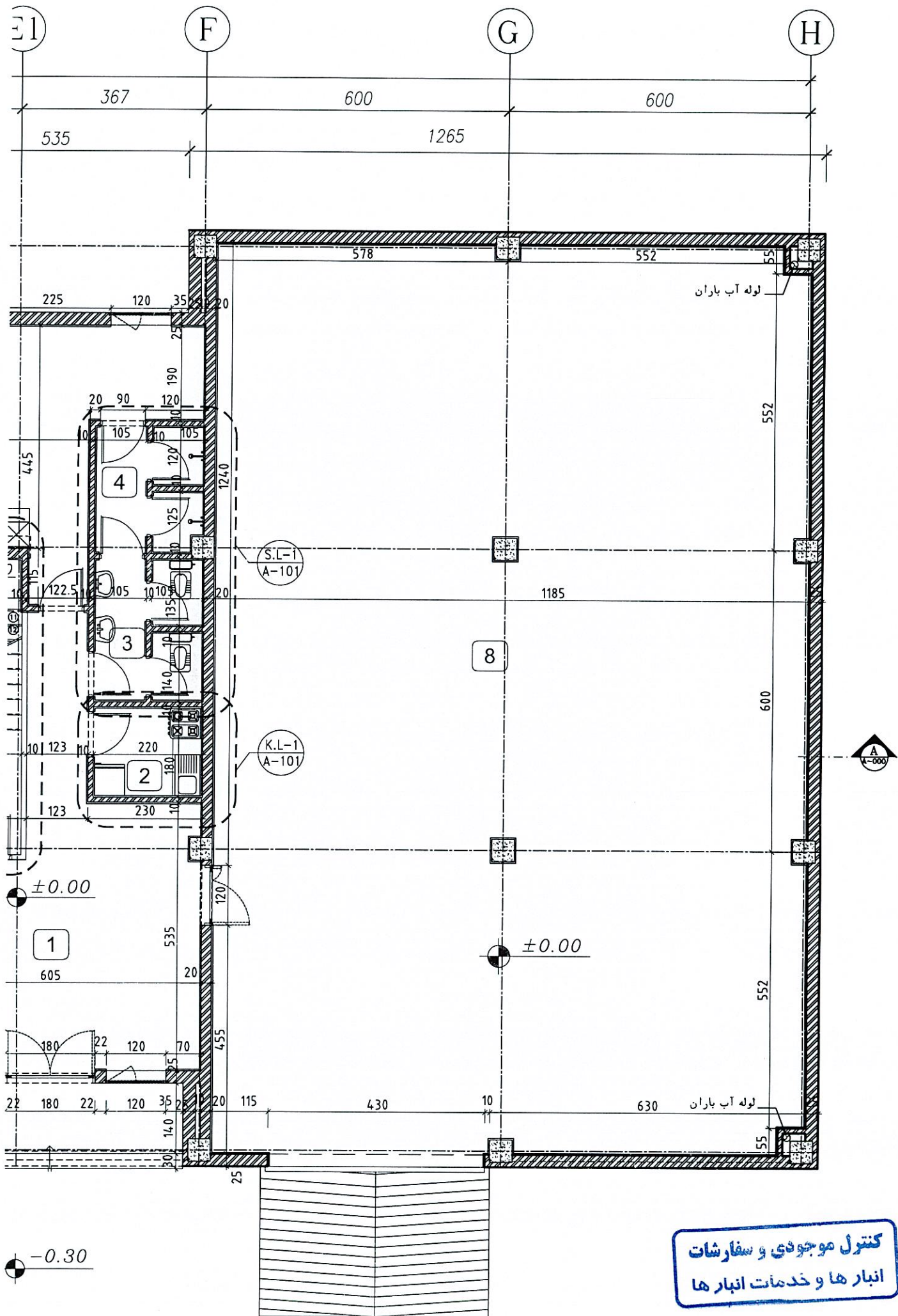
Type	TURBO COMPRESSOR
Capacity at STD condition	(30m <sup>3</sup> /min)
Working pressure	8-10 bar
Design pressure	13 bar
Driver	Electric Motor, 400V ,3ph ,50 Hz
Cooling	Air Cooled
Motor power	VFD
Installation	Indoor
Quantity	2

### 1-2)- AIR RECEIVER

Capacity	9000 lit
Operation Pressure	10 bar
Design Pressure	13 bar
Test Pressure	17 bar
Quantity	2

### 1-3)- DRYER

Type	Refrigeration
Capacity min.	30 m <sup>3</sup> /min
Working Pressure Max.	10 bar





Design Pressure	13 bar
Test Pressure	17 bar
Quantity	2

#### 1-4)- AIR FILTERS

Type	Micro filter
Capacity Min.	30 m <sup>3</sup> /min
Pressure Drop	0-0.5 bar
Max.Adsorption particle	0.1 Micron
Max.Adsorption oil	0.1 ppm
Quantity	4 Off.

#### 1-5)- WATER TRAP

Capacity	30 m <sup>3</sup> /min
Operating pressure	8-10 bar
Design pressure	13 bar
Test pressure	17 bar
Quantity	2 Off.

#### 1-6)-PIPE WORK

All the pipe works are above ground. The pipes and connections  
Are carbon steel, welded types for compressed air and  
Galvanized pipes for dry compressed air (Instrument air).

کنترل موجودی و سفارشات  
انبار ها و خدمات انبار ها



under separate section entitled as "List of Deviations ". Any deviations or exceptions shall be justified and fully explained in the bid.

After order award , Vendor will not allow any extra price necessitated from failure to comply with specifications.

All materials and components shall be guaranteed by the Supplier against defects or improper materials, poor workmanship and failure due ti normal usage for 12 months after placed in service , but not exceeding 18 months after the date of shipment.

Packaging shall be suitable for land transportation and tropical proof , suitable for at least 1-week transit condition and 1-year storage under site conditions.

No protection paint or other filling shall be applied to the contract works before they have been inspected , tested and approved by Consultant or his authorized inspector. After approval and before dispatching , each part of the contract works shall be thoroughly cleaned and appropriately protected and packed in accordance with the project specification.

The Supplier's quotation must the following :

- Inquiry No. & quotation No.
- Promised delivery date.
- Country of origin.
- Shipping weights and volume.
- Validity time.
- Required Utilities and Electrical consumptions.
- List of Deviations, exceptions or Alternatives.

Origin of material being quoted (country, place , and name of manufacturer )as an alternative to the quotation submitted in accordance with the enclosed documents , is Consultant's objective to achieve the commercially most attractive solation for the entire required scope within the requirements of this inquiry. Bidder is therefore requested to carefully analyze the enclosed documents and to submit additionally an alternative quotation highlighting cost affected items considering the codes standards and Manufacturer's standards only.

کنترل موجودی و سفارشات  
انبار ها و خدمات انبار ها

All final documents/drawings shall be submitted according to those mentioned in attachments of this material requisition.

A fixed lump sum price is required for each and every item of the quotation. Supplier is required to include in his firm price the provision of all information relevant to handling and transportation of each item to the site, i.e. any required temporary support.

Supplier shall include in his firm price the cost of performing all specified tests and inspection including the cost of provision of test certificates.

Supplier shall include in his supply the provision of all pre-commissioning , commissioning, start-up spares and special tools.

Supplier shall submit a separate firm price and list for two years operational spares , which will be subject of a separate order.

## 1.2 Noise Level Requirement

General in – plant noise levels shall not exceed 85 Db(A) at 1 meter Distance from source of noise.

## 1.3 Applicable Documents

### 1.3.1 General

Engineering documents, defined for this equipment in project's MDR, Are applicable for supply of the items mentioned in design Parameters. The vendor is the sole responsible party for the correct application of The contractual documents and adherence to all specifications and Codes.

If any difference and/ or conflicts between the documents attached in this Requisition should occur, the most stringent requirements shall govern. Any ambiguity or conflict shall be referred to the Consultant and Approved solution shall be applied.

### 1.3.2 Precedence

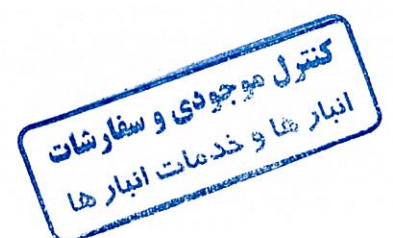
The order of priority of documents is as follow.



SUBJECT 2:

DATA SHEET FOR MECHANICAL EQUIPMENT

COMPRESSED AIR SYSTEM



## 2)-Data Sheet for Compressor Package:

Service:	compressed air
Working NO./Standby/Total	3"or 4"
compressor Type:	Turbo compressor

### Site Condition:

1	Altitude	1800 m above sea level
2	Average Humidity (summer)(RH%)	49% Mean
3	Average Humidity (winter)(RH%)	84% Mean
4	Amb.Tem.(MIN/MAX):	summer 42/winter -15
5	Atmosphere :	Dusty
6	Site Locatio :	Zandjan-Zandgan

### Compressor data:

1	Altitude	1800 m above sea level
2	Average Humidity (summer)(RH%)	49% Mean
3	Average Humidity (winter)(RH%)	84% Mean
4	Amb.Tem.(MIN/MAX):	summer 42/winter -15
5	Atmosphere :	Dusty
6	Site Location :	Zandjan city / Iran transfo

1	Equipment Tag:	
2	Compressor type:	Screw type : Turbo compressor
3	quantity:	2 set
4	Installation:	Indoor
5	Operation:	Intermittent
6	Design Pressure:	13 bar
7	Operation Pressure:	8-10 bar
8	Capacity(standard condition):	2*30 Nm <sup>3</sup> /min
9	Design Temperature:	42 degree
10	Efficiency:	Note(1)
11	RPM:	1450
12	Axis:	Horizontal
13	Lining:	No.
14	Lining Spec:	NA
15	Discharge Nozzle Size/Rating/Facing:	Note(1)
16	Lubrication:	Note(1)
17	Sealing :	Note(1)
18	Max Noise Level:	85db
19	Painting:	According to painting spec
20	Dimensions:	Note(1)
21	Weight:	Note(1)

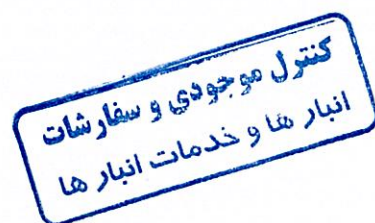


## Pre Air Filter data :

1	Tag number :	04D00048
2	Quantity :	2 Set
3	Manufacturer :	Note(1)
4	Type & Material of Filter Media :	Note(1)
5	Inlet Air Capacity :	30 Nm <sup>3</sup> /min
6	Dimension (Height / Diameter) :	Note(1)
7	Pressure Drop :	0-0.5 Bar
8	Max. Adsorption Particle :	0.1 micron
9	Max. Adsorption oil :	0.1 ppm
10	Type / Model :	Note(1)
Note (1) :Should be specified by manufacturer /supplier		

## After Air Filter data :

1	Tag number :	04D00048
2	Quantity :	2 Set
3	Manufacturer :	Note(1)
4	Type & Material of Filter Media :	Note(1)
5	Inlet Air Capacity :	30 Nm <sup>3</sup> /min
6	Dimension (Height / Diameter) :	Note(1)
7	Pressure Drop :	0-0.5 Bar
8	Max. Adsorption Particle :	0.01 micron
9	Max. Adsorption oil :	0.01 ppm
10	Type / Model :	Note(1)
Note (1) :Should be specified by manufacturer /supplier		



SUBJECT 3 :

Inquiry for Air Compressor and Auxiliaries



## 1.0 "MATERIAL REQUISITION FOR COMPRESSOR PACKAGE"

### 1.1 General

This requisition covers the minimum requirements for the design, materials supply , fabrication , inspection , Commissioning and performance test of the following equipment with necessary auxiliaries to be installed at " Iran Transfo Expansion plan "

NO	Description	QTY
1	Air compressor Package	2

SUPLIER shall provide the equipment and/or materials in strict accordance with conditions stated in this requisition and any attached documents. The selected materials, equipment and accessories shall be considered for a heavy duty operation.

Exceptions, deviations and alternatives will be valid only if approved in writing by Consultant.

### 1.2 General Requirements

All technical correspondences, drawings and documents submitted by Supplier shall be in English language.

International system of units (SI) shall be used in all documents.

Any contradiction or difficulty in interpreting the different documents raised by the Supplier shall be notified to Consultant to obtain their clarification. Any deviation shall be listed, as well as priced, separately .

Failure to do so will be interpreted as the Supplier having complied in every detail with Consultant's requirements. No deviation will be permitted without prior written agreement of the Consultant.

Design and manufacturing cannot be started until this clarification has been taken into account by Supplier.

Prior to commencement of fabrication and shipment, all documents needed for this equipment shall be submitted for Consultant Review and Comment.

If Supplier considers any exceptions ,deviations and/or alternatives, regarding Consultant's requirements, bidder shall clearly define and list them in his proposal

- 1)- Purchase order
- 2)- Agreed Deviation / Alternatives jobs
- 3)- Material Requisition
- 4)- Data sheets
- 5)- International codes and standards

Any conflict between the above documents must be brought to Purchaser's approval shall be obtained before proceeding with Manufacturing and/or any other work.

## 1.4 Deviations from Purchaser's Requirements

VENDOR'S quotation shall be in strict conformity with PURCHASER'S Requirements. Unless exceptions, deviations or alternatives are listed in VENDOR'S quotation, the requirements and conditions in this Requisition shall be deemed to be accepted by VENDOR.

No deviations from the requirements of this specification are allowed after issue of the letter of intent.

## 1.5 Codes and Standards

The following standards shall apply for engineering and equipment Delivery

### 1.5.1 Equipment:

All components of this inquiry shall be designed based on ASME, BSI, ISO OR DIN standards.

All nozzles' sizing, rating, facing and drilling shall be based on ANSI/ASME OR DIN standard.

### 1.5.2 Electrical:

Electrical Motors shall be supplied in accordance with the Recommendations of the International Electro- Technical Commission (I.E.C) and the document specification for Low Voltage Induction Motors.

### 1.5.3 Welding symbols:

Welding design and symbols in the drawings shall be according to AWS,

کنترل موجودی و سفارشات  
انبارها و خدمات انبارها



EN OR ISO standards.

#### 1.5.4 Drawings:

All design and drawings shall be done in English language, using metric System and SI units and projection shall be first angle protection.

#### 1.6 Scope of Supply and Design

Vendor shall be responsible for the design, supply of materials , Manufacturing, prefabrication, shop assembling, shop inspection and Tests, guarantee, painting, packing, transportation, Supervision of Site Installation & Commissioning & Performance test of the entire unit to The extent of the Vendor's supply.

Purchaser's approval shall in no way construed as relieving Vendor of Any of his obligation, responsibilities or liabilities under the CONTRACT And/or applicable Codes and Standards.

#### 1.7 Scope of Work and Services

- Project Management.
- Complete detailed engineering, Mechanical, Electrical, Structure & Instrumentation design and calculations.
- General Assembly Drawings.
- Procurement of raw materials, parts, etc.
- Fabrication and assembly of the equipment.
- Fabrication shop tests (without load) and inspections.
- Pressure test and/or leak test records.
- Balancing test.
- Function test.
- Preservation, protection and painting.
- Marking
- Preparation for shipment and packing.
- Transportation
- Packing removal
- All related site works
- Site test including static and dynamic test.
- Pre-commissioning and commission.
- Field erection and installation (Offer should be prepared by vendor as optional.)
- Performance tests.

- Provisional acceptance certificate.
- Attending at all meetings held by EPC Contactor/Consultant.
- Submitting of a separate quotation for spare parts for 2- years operation
- And commissioning spare parts.
- Training (if applicable).
- Vendor shall be offered transportation and site erection.
- Electrical wiring and controls, cable, cable trays, glands and conduits integral to the unit

## 1.8 Spare Parts

SUPPLIER shall consider commissioning spare part and SECIAL

TOOLS in proposal

SUPPLIER shall offer two-years operation SPARE PARTS, separately

## 1.9 Inspection and Tests

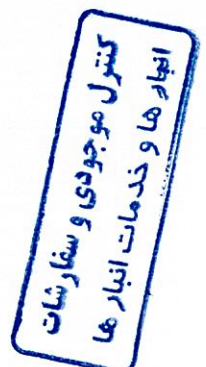
Inspection and tests shall be performed by Vendor with considering the Below requirements;

Test and inspection shall be according to related specifications and Approved ITP(Inspection & Test Procedure)and QC Plan.

Purchaser reserves the right for inspection at any stage of Manufacturing, test or preparation for shipment. Purchaser's approval Shall not relieve Vendor of his commitments under the terms of the Purchase documents and this specification.

The purpose of the test and inspection outlined in this Material Requisition is to verify manufacturing process as well as its consistency With the related specifications and all other attachments as well as Fulfillment of the designated function and safety.

Inspection procedures (QC Plan) shall be prepared by Vendor and Submitted to Purchaser/Owner for his approval.



Test certificates and inspection reports shall be issued by Vendor in Accordance with the approved QC Plan.

Purchaser's representative shall have access to Vendor's shop for inspection during manufacturing at any time without limitation.

All relevant test certificates shall be provided by manufacturer and the Manufacturer shall be fully responsible for carrying it out.

All required NDE-TESTS regarding material structure, characteristics, Hardness and analysis shall be executed according to design code, Specification and inspection documents.

For all butt welds PT TEST %100 is required.

For all fillet welds MT TEST %100 is required.

The Quality Assurance Documents shall be including, if practical , But not limited to the following:

- Content
- Certificate of compliance issued by the Seller
- Rubbing of Nameplate
- Mill sheet or material test certificate
- Visual inspection records
- Dimensional inspection records
- WPS and PQR





- Qualified Welder List with their certificates
- Material certificates of welding consumable
- Non-Destructive examination records
- Pressure test and/or Leak test records
- Function test records
- No-Load operation test records
- Performance test records
- Electric-Wiring inspection records
- Withstand voltage test records
- Repair records and Re Inspection records
- Other test records required by the Requirements

## 1.10 Packing:

Compressor package shall be packed as “ quality control and Test manual (Q.C.T.M)” approved by Consultant.

A copy of packing list and supply list will accompany each packing.

The documents necessary for final inspection and release for Packing will include , but are not limited to the following:

- Reports on tests performed.
- Sub-Supplier’s certificates for materials.
- Supply list of equipment.

## 1.11 Documents:

The documents, which shall be submitted by seller, include following



Items :

DOCUMENT	DURING TENDER	DURING SUPPLY	REMARKS
Time schedule for all activites including engine	■	■	
Prior approval of source of supply/manufacture	□	■	
Part List	□	■	
Material certification	□	■	
ITP(Inspection and Test Plan)	■	□	
Quality Plan	■	□	
Q.C.T.M.(quality control and testing manual)	□	■	
Relevant catalogues	■	□	
Price list for the main equipment	■	■	
Preparation and submitting of recommended spare part list for 2 years safe operation			
Price list for the spare parts	■	■	
Packing specification	■	□	
Erection and installation manual	□	■	
Load plan (static and dynamic)	■	■	
Operation and maintenance manual	□	■	
Supervision of Erection &Commissioning price	■	□	
Primary Dimensional drawings of each Equipme	■	□	CAD files
As built Dimensional drawings of each Equipme	□	■	CAD files
Complete description of equipment	■	□	
Manufacturer's completed data sheets	□	■	
Statement of shipping weights and volume wit	■	□	
List of exceptions to specifications and other re	■	□	
Start-up and commissioning instructions and da	□	■	
fault diagnostic instructions and data	□	■	
A block diagram, showing the basic control and	■	■	
Instrument list	■	■	
Instrument data sheets	■	■	
Instrument Loop Wiring Diagram	□	■	
Instrument Cable List	□	■	
Instrument Hook-Up Drawing	□	■	
Interlock Diagram	□	■	
Control System Configuration	□	■	
Primary dimensional drawing of control cabine	■	□	
Electrical consumer list	■	□	
Electric single line diagram	□	■	
Electric Wiring diagrams	□	■	
Vendor list of the magor sub-supply	■	□	
Statement of terms of payment	■	□	
Statement of all taxes , including export tax	■	□	
Reference list	■	□	



## 1.12

### GENERAL NOTES:

- 1) Each drawing/document shall show job title,  
Order NO. and TAG NO(s).
- 2) Drawings / documents required with quotation to be sent in the  
same number of copies as quotation.
- 3) Supplier should minimize number of drawings / documents  
submitted, by combining information, where possible.
- 4) 2 off manufacturing data book to be enclosed with equipment at  
the time of shipment.
- 5) Electronic files of final drawings / documents shall be transmitted  
by supplier as following:
  - I. Drawings in "native & pdf " format
  - II. Documents in "native & pdf " format
- 6) Operation manuals and quality dossiers shall be in paper form in  
the number of copies indicated.
- 7) Each revision of any drawing and document shall have a revision  
identification mark and shall show the scope of revision.
- 8) The listed drawings / documents are minimum requirements.  
Supplier shall submit any other drag. / Doc As required or  
requested by Consultant.

## 1.13

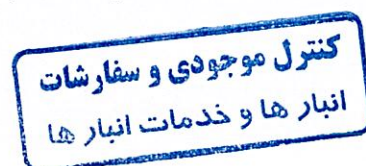
### Installation / Guarantee

#### 1.13.1

##### General:

The seller shall provide competent supervisor(s) to assist in the  
Erection , testing under operating conditions , starts – up of  
equipment supplied , as well as training of company personnel  
(when applicable).

All labor , tools and erection equipment will be supplied by others,  
Unless special tools are required.





### 1.13.2 Trials:

Conducted by Consultant under operating conditions.

The Seller shall check each item of equipment and shall supply Parts or equipment necessary to assure that the equipment or System is performing in accordance with the requirement and The intent of this specification.

### 1.13.3 Mechanical Guarantee:

The seller shall assume responsibility for all unit equipment and Ancillary systems included in the scope of order.

All equipment and components shall be guaranteed by the vendor Against faulty design , defects in or improper material , poor workmanship and failure due to normal operation for 36 months after installation and commissioning.

Handwritten signature and stamp in the bottom left corner.

22	Air Receiver:	Yes
23	Air Receiver volume:	2*9000 lit
24	Pressure Safety Valve for Air Receiver:	Yes
25	Pressure Gage for Air Receiver:	Yes
26	Auto Drain Valve for Air Receiver:	Yes
27	Dryer:	Yes
28	Filter:	Yes
29	Water Trap:	Yes
30	Accessories:	Note(1)
31	Bearing and Housings:	Note(1)
32	Hydro Test Pressure for Air Receiver:	Note(1)

Material of Construction		
33	Main Frame :	Note(1)
34	Screw :	Note(1)
35	Shaft :	Note(1)
36	Shaft Sleeve :	Note(1)
37	Couplings :	Note(1)
38	Chassis :	Note(1)
39	Lubricant :	Note(1)

NOTES (1):Should be specified by manufacturer / supplier

## Electric Motor Data:

## Electrical Spec.

1	Installation :	Indoor
2	Manufacturer :	Note(1)
3	Type :	Note(1)
4	Size :	Note(1)
5	Rated Output(KW) :	Note(1)
6	Rated Voltage (V) :	400V+ or - 10%
7	Frequency (HZ) :	50 HZ
8	Rated Current (A) :	Note(1)
9	Speed (rpm) :	Note(1)
10	Efficiency (%) :	Note(1)
11	Power Factor :	Note(1)
12	Starting Current (A) :	Note(1)
13	Starting Torque (N.M) :	Note(1)
14	Type of Starting :	VDF
15	Operation :	Continuous
16	Electrical Area Classification	Safe Area
17	Enclosure Material :	Cast Iron
Mechanical spec.		
18	Insulation Class :	F
19	Protection :	IP55

کنترل موجودی و سفارشات  
انبارها و خدمات انبارها

20	Terminal:	IP55
21	Max Noise level :	85 db
22	Electrical Area Classification :	Safe Area
23	Painting :	Note(2)
24	Outline Drawing :	Note(1)
Note(1) : Should be specified by Manufacturer / Supplier		
Note(2) :Based on "Painting Specification"		

## Air Dryer data :

1	Tag number :	04D00048
2	Model :	Note(1)
3	Quantity :	2 Set
4	Capacity :	30 Nm <sup>3</sup> /min
5	Working Pressure :	10 Bar
6	Design pressure :	25 Bar
7	Test Pressure :	40 Bar
8	Inlet & Outlet Connection :	Note(1)
9	Dimension :	Note(1)
10	Weight :	Note(1)
Note (1) :Should be specified by manufacturer /supplier		

## Air Receiver data :

1	Tag number :	04D00048
2	Type / Model	Note(1)
3	Capacity :	9000 Lit.
4	Quantity :	2 Set
5	Working pressure :	10 Bar
6	Test Pressure :	17 Bar
7	Material :	Note(1)
8	Wall Thickness :	Note(1)
9	Dimension (Height / Diameter) :	Note(1)
10	Weight :	Note(1)
11	Inlet & Outlet Connection :	Note(1)
12	PSV(Pressure Safety Valve) :	Included
13	PT (Pressure Transmitter) :	Included
14	Alarm High & Low :	Included
Note (1) :Should be specified by manufacturer /supplier		

Handwritten note in a box:

For Air Receiver & Air Dryer