



گروه مهندسی آب فاطر

Fater Irrigation Group





Chapter1

Company Introduction



گروه مهندسی آب فاطر
Fater Irrigation Group

Fater Irrigation Group

is working on the area of Implementation of civil projects, research and development, trade and production with optimization approach in water consumption and using modern equipments and Collaboration with experienced professionals.

The company is active in the fields of implementation of water and wastewater transmission lines and pressurized irrigation projects and etc with using executive staff educated in the Bachelors and Masters degrees and also the successful professors of top universities as consultant.

This company is always intending to take important steps in projects implementation with the aim of satisfying respectable employers, by relying on the engineering ethics charter and combining the knowledge of skill, experience and creativity.

On the next pages the resume of the company will be introduced.





گروه مهندسی آب فاطر
Fater Irrigation Group

Specification of Fater Irrigation Group

Company Registration Number :38806

Economic Number : 411376347659

National ID : 10260564377

Phone : +983136626199

Mobile : +989124367004

Telegram : +989902168045

Email: info@fater-co.com
www.fater-co.com





گروه مهندسی آب فاطر
Fater Irrigation Group

Machinery & Equipments

Description	No
Excavator-Net power 150 hp	4
Asphalt Cutter	2
Dumprt Truck	10
Compressor - 180 CFM	4
Jackhammer	2
Engine Driven Welder - 250 amp	6
Pick Up Truck - 1.5 ton	4
Concrete Vibration	4
HDPE Welding Machine	2
Pump Test Machine	4
Loader - GL	4
Crane - 5ton	2
Crane - 3ton	2
Backhoe	2
Bobcat	4





گروه مهندسی آب فاطر
Fater Irrigation Group



تاریخ: ۱۳۹۷/۱۱/۲۵
شماره: ۵۸۸۳۴۸

رئاست جمهوری
سازمان برنامه و بودجه کشور
سازمان مدیریت و برنامه ریزی استان اصفهان

گواهینامه صلاحیت پیمانکار

جناب آقای داود حق بین
مدیرعامل محترم شرکت بنا ساختمان فاطر
شماره ثبت: ۳۸۸۰۶

با استناد به مصوبه شماره ۴۸۰۱۳/ت/۲۳۲۵۱ هـ مورخ ۱۳۸۱/۱۲/۱۱ هیأت محترم وزیران و باتوجه به احراز شرایط لازم و تایید صلاحیت آن شرکت در سامانه جامع تشخیص صلاحیت عوامل نظام فنی اجرایی، به این وسیله صلاحیت آن شرکت برای انجام امور پیمانکاری از تاریخ صدور این گواهینامه تا پایان دوره ارزشیابی و حداکثر تا تاریخ ۱۴۰۱/۱۰/۲۳ اعلام می گردد.

شناسه ملی شرکت: ۱۰۲۶۰۵۶۴۳۷۷

جهت مشاهده جزئیات گواهینامه صادره به پایگاه

<http://sajar.mporg.ir> مراجعه فرمایید.

رعایت مفاد قانون برگزاری مناقصات مصوب شماره ۱۳۰۸۹۰ مورخ ۱۳۸۳/۱۱/۱۷ و آیین نامه های اجرایی مربوطه و ظرفیت کاری مجاز در زمان ارجاع کار توسط آن شرکت ضروری است.

نعمت الله اکبری

رئیس سازمان

- هرگونه تغییر در ارکان و سهام شرکت و اطلاعات امتیاز آوران (مدیرعامل، هیأت مدیره، و کارکنان امتیاز آور) باید حداکثر ظرف سه ماه در سامانه ساجات (<http://sajat.mporg.ir>) ثبت شود در غیر این صورت گواهینامه صادره فاقد اعتبار می باشد.

- شش ماه قبل از تاریخ انقضای گواهینامه صلاحیت نسبت به تمدید در سامانه ساجات اقدام گردد.

- هر قرارداد جدید حداکثر ظرف سه ماه پس از انعقاد قرارداد و صورت وضعیت های جدید پس از تایید کارفرما در سامانه ساجات ثبت شود. تا امتیاز آنها هنگام تشخیص صلاحیت دوره بعد و آزادسازی ظرفیت منظور شود.

در صورت مغایرت مطالب این گواهینامه با اطلاعات موجود در پایگاه <http://sajar.mporg.ir> اطلاعات پایگاه

اصلت دارد. لطفاً به مندرجات پشت گواهینامه توجه فرمایید.



گروه مهندسی آب فاطر
Fater Irrigation Group

شماره: ۴۰۵/۹۴/۷۴۵
تاریخ: ۹۴/۲/۹
پیوست: ندارد



گواهینامه صلاحیت پیمانکاری

جناب آقای داود حق بین

مدیر عامل محترم شرکت بنا ساختمان فاطر

با استناد به نامه شماره ۲۰/۲۲/۳۴۶۹۹ مورخ ۱۳۸۹/۰۷/۲۸ سازمان مدیریت و برنامه ریزی کشور و ارزیابی انجام شده، صلاحیت آن شرکت با شماره ثبت ۳۸۸۰۶ در زمینه انجام امور پیمانکاری روشهای نوین آبیاری، ضمن رعایت نشریه های مرتبط با سازمان مدیریت و برنامه ریزی کشور به شرح زیر اعلام می گردد:

اعتبار گواهینامه از تاریخ صدور به مدت دو سال می باشد.

پایه: ۵

حداکثر ظرفیت مجاز در سال	حداکثر کار مجاز به صورت همزمان	
مساحت (هکتار)	مساحت هر پروژه (هکتار)	تعداد پروژه
۴۰۰	۵۰	۲

خواهشمند است برای مشاهده جزئیات گواهینامه صادره به سایت <http://novinabyari.maj.ir> مراجعه فرمایید.

عباس زارع
مشاور وزیر و مجری طرح

هرگونه تغییر در ارکان و سهام شرکت و اطلاعات امتیاز اوران (مدیر عامل، هیأت مدیره و کارکنان امتیاز اوران) باید حداکثر ظرف مدت یک ماه در دفتر سامانه های نوین آبیاری ثبت شود.

کرج: کیلومتر هفت جاده مردآباد صندوق پستی: ۱۱۴۳-۳۱۵۸۵ تلفنخانه: ۰۲۶-۳۶۷۹۱۰۰۱-۸ نمابر ۰۲۶-۳۶۷۹۱۰۱۴
پست الکترونیک m.irrigationsys@agri-jahad.org



گروه مهندسی آب فاطر
Fater Irrigation Group

IdeaCert
The Best Way To Invent The Future

CERTIFICATE

This Certificate Has Been Awarded To:

Bana Sakhtemane Fater

Company Address: No.54, Mihan Alley, Abshar III St., Esfahan, IRAN

IdeaCert Services certifies that Management System of the above organization has been audited and found to be in accordance with the requirements of the management system standards and guideline detailed below.

STANDARD

ISO 9001:2008

For The Scope Of Activities Described Below:

Water, Electric, Building

ISO 9001:2008

Approval Date: 01/18/2014
Issue Date: 01/21/2014
Certificate Expires: 01/21/2017
Certificate Number: QM01141041



President IdeaCert
Evan Dumont

FSAI

The Validity Of The Registration Will Be Continued Only When The Organization Accepts The Annual Surveillance Audit. Check The Certificate At FSAI(www.fsa.ir)



گروه مهندسی آب فاطر
Fater Irrigation Group

مدیر عامل محترم شرکت بناساختان فاطر

جناب آقای مهندس محمد شیروانی

از اینکه با اراده محکم و عزمی راسخ و با پشتوانه توانمندی در زمینه های
مدیریتی و رعایت انضباط کاری در پروژه خط انتقال پساب مجدانه و مدبرانه
تلاش نموده اید به پاس همت عالی و همیت کاری که در زمینه سیستم
مکانیکال و اجرای خط انتقال پروژه مذکور داشته اید بدینوسیله مراتب تقدیر
و سپاس خود را از شما اعلام می داریم

حمیدرضا خدایی

مدیر عامل سازمان پارکها و فضای سبز شهرداری شاپور

حسین امیری

شهردار شاپور



گروه مهندسی آب فاطر
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Project Introduction

Najaf Abad Sewage Transmission Line

Contract Description : Excavation and piping of Najaf Abad sewage collection network and installation of branches in addition to providing materials and equipments and machinery.

Project Location: Isfahan Province, Najaf Abad

Contract Price: 140,107,500,000Rial

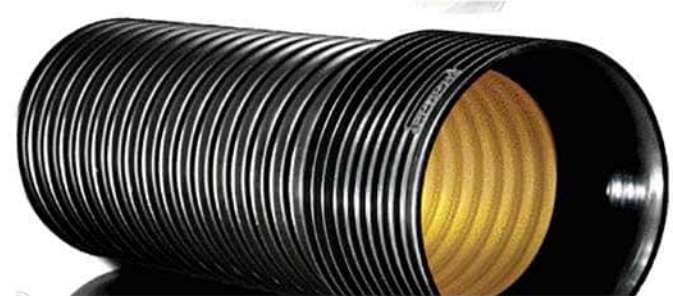
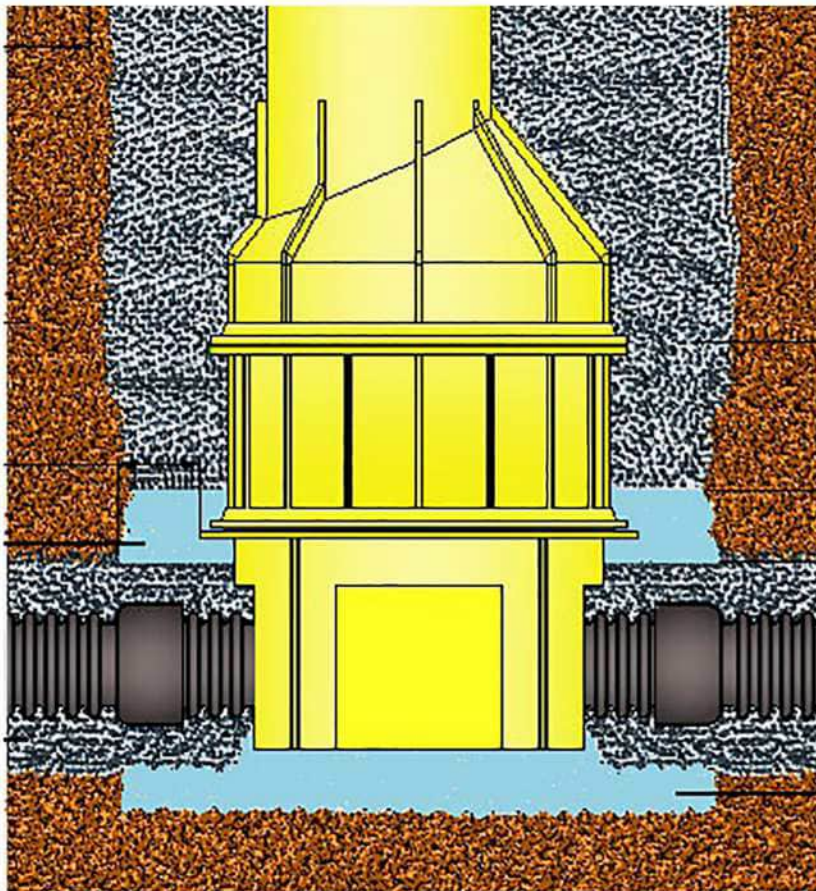
Length of Transmission Line: 100Km

Pipe Material: Carrugated Pipes

Reservoir Type: Precast Concrete Manhole

Employer: Water & Waste Water Company of Isfahan Province Co.

Consultant Engineer: Water and Waste Water Consulting Engineer.





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Project Introduction

Collector Line & Water Reservoir

Contract Description : Construction of East-West collector line and reservoir of 10th district of Isfahan municipality.

Project Location: Isfahan

Contract Price: 34,784,778,000 Rial

Length of Transmission Line: 5500m

Pipe Material: PE Pipe

Reservoir Type: Reinforced Concrete

Reservoir Volume: 1000 m³

Employer: Isfahan Municipality.

Consultant Engineer: Zharfab Tadbir Consulting Engineering Co.

Resident Engineer: Isfahan Municipality.





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Project Introduction

Shahin Shahr Waste Water Transmission Line

Contract Description : Implementation of piping operation of the waste water transmission line in the direction of the 1000 m³ Vali - e - Asr to the 10000 m³ reservoir and construction of the building of Vali - e - Asr pumping station.

Project Location: Isfahan Province, Shahin Shahr

Contract Price: 27,369,913,325 Rail

Length of Transmission Line and Dimention: 8600 m , 800 & 600 mm

Pipe Material: GRP

Reservoir Type: Reinforced Concrete

Employer: Shahin Shahr Municipality.

Consultant Engineer: Hydropars Consulting Engineering Co.

Resident Engineer: Pars Joyab Consulting Engineers Co.





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Project Introduction

Qanavat Water Transmission Line

Contract Description : Implementation of Qanavat Water Transmission Line and preparation of materials.

Project Location: Isfahan Province, Najaf Abad

Contract Price: 7,500,000,000 Rial

Length of Transmission Line and Dimention: 1300 m

Pipe Material: Steel

Reservoir Type: Reinforced Concrete

Employer: Shahin Shahr Municipality.

Consultant Engineer: Hydropars Consulting Engineering Co.





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Project Introduction

Collector Line

Contract Description : Construction of East-West Collector Line of 9th district of Isfahan Municipality.

Project Location: Isfahan

Contract Price: 48,933,504,000 Rial

Length of Transmission Line: 4600 m

Pipe Material: Polyethylene Pipe, PE100, PN10, 315mm

Steel Pipe 300mm

Reservoir Type: Precast Concrete Manhole

Employer: Isfahan Municipality

Consultant Engineer: Zharf Ab Tadbir Co





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Chapter3

Smart Pressurized irrigation Projects



گروه مهندسی آب فاطر
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Project Introduction

Najaf Abad Hospital

Contract Description: Equipments and Fittings Purchase and Implementation of Najaf Abad Smart Pressurized Irrigation

Project Location: Isfahan Province, Najaf Abad

Contract Price: 5.688.342.000 Rial

Area: 12 ha

Employer: Najaf Abad Hospital

Type: Smart Sprinkler & Drip Irrigation

Year: 2016

Set per Interval: 6

Time per set: 2hr

Reservoir Type: pool, Discharge 40 m³/h

Water Quality: Good

Soil Quality: Good

Spray Nozzle: *Van Series*

Body: *Spray Body 1804*

Sprinkler: *PGP Hunter*

Controller: *ESP - Modular*

Bubbler: *PC-LR, PC-SR*

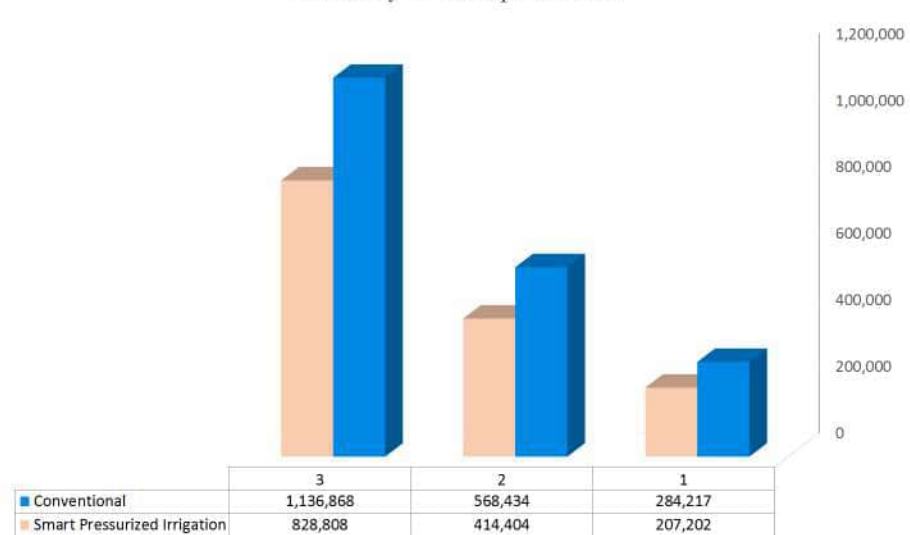
Riser: *cut off 1/2 N*



Monthly Labor Force	Monthly Electricity Consumption(kwh)	Monthly Water Consumption	System Type
9	1347	2200	Conventional
2	982	1034	Smart Pressurized Irrigation

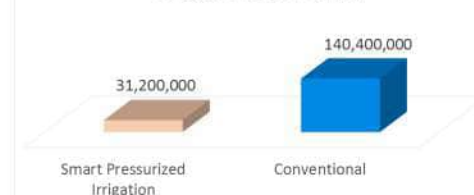
Smart Pressurized Irrigation	Conventional	Unit Price(Rial)	Costs Description	No
7,238,000	15,400,000	7,000	Water Consumption Cost	1
207,202	284,217	211	Low Load	2
414,404	568,434	422	Between	
828,808	1,136,868	844	Peak Times	
31,200,000	140,400,000	15,600,000	Monthly Labor Force	3
39,888,414	157,789,519		Total Costs	4

Electricity Consumption Costs



%27 Saving in Electricity Consumption Costs

Labor Force Costs



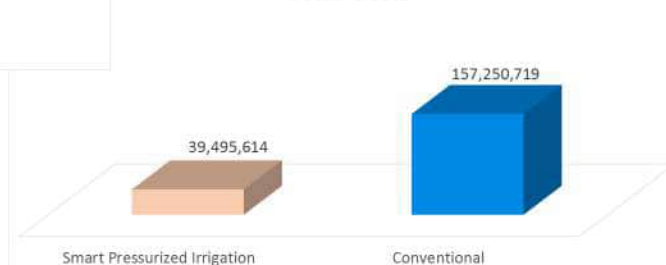
%77/77 Saving in Labor Force Costs

Water Consumption Cost



%53 Saving in Water Consumption Costs

Total Costs



%74/88 Saving in Total Costs





گروه مهندسی آب فاطر
Fater Irrigation Group

Project Introduction

Shahreza Forest Park

Contract Description: Implementation of Shahreza Moallem Forest Park Smart Pressurized Irrigation

Project Location: Isfahan Province, Shahreza

Contract Price: 1,800,000,000 Rial

Area: 14 ha

Employer: Shahreza Municipality

Type: Smart Sprinkler & Drip Irrigation

Year: 2015

Set per Interval: 3

Time per set: 2hr

Reservoir Type: pool, Discharge 100 m³/h

Water Quality: Good

Soil Quality: Good

Spray Nozzle: *Van Series*

Body: *Spray Body 1804*

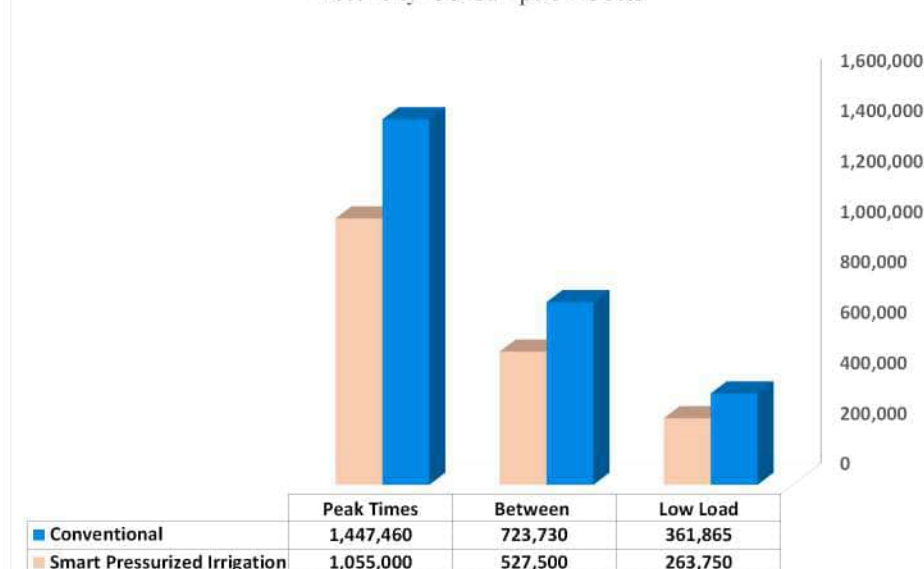
Bubbler: *30 l/h with Riser*



Monthly Labor Force	Monthly Electricity Consumption(kwh)	Monthly Water Consumption	System Type
10	1715	2800	Conventional
3	1250	1316	Smart Pressurized Irrigation

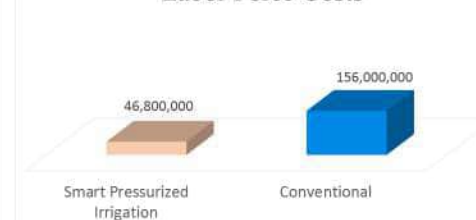
Smart Pressurized Irrigation	Conventional	Unit Price(Rial)	Costs Description	No
9,212,000	19,600,000	7,000	Water Consumption Cost	1
263,750	361,865	211	Low Load	2
527,500	723,730	422	Between	
1,055,000	1,447,460	844	Peak Times	
46,800,000	156,000,000	15,600,000	Monthly Labor Force	3
57,858,250	178,133,055		Total Costs	4

Electricity Consumption Costs



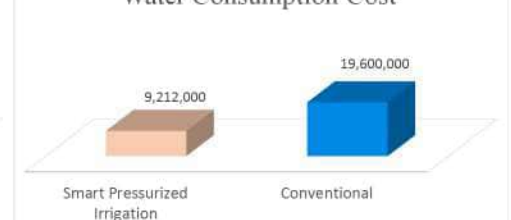
27% Saving in Electricity Consumption Costs

Labor Force Costs



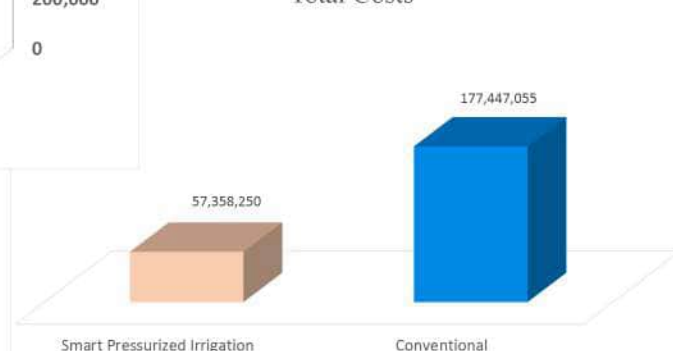
70% Saving in Labor Force Costs

Water Consumption Cost



53% Saving in Water Consumption Costs

Total Costs



67/67% Saving in Total Costs



گروه مهندسان آب فاطر
Fater Irrigation Group





گروه مهندسی آب فاطر
Fater Irrigation Group

Project Introduction

Imam Ali Sq

Contract Description: Implementation of Subsurface Irrigation of Imam Ali Sq

Project Location: Isfahan

Area: 2330 m²

Employer: Isfahan Municipality

Type: Smart Subsurface Irrigation

Year: 2014

Set per Interval: 4

Time per set: 6hr

Reservoir Type: Reservoir, Volum 56 m³

Water Quality: Good

Soil Quality: Moderate

Subsurface Line: XFS - Subsurface Dripline

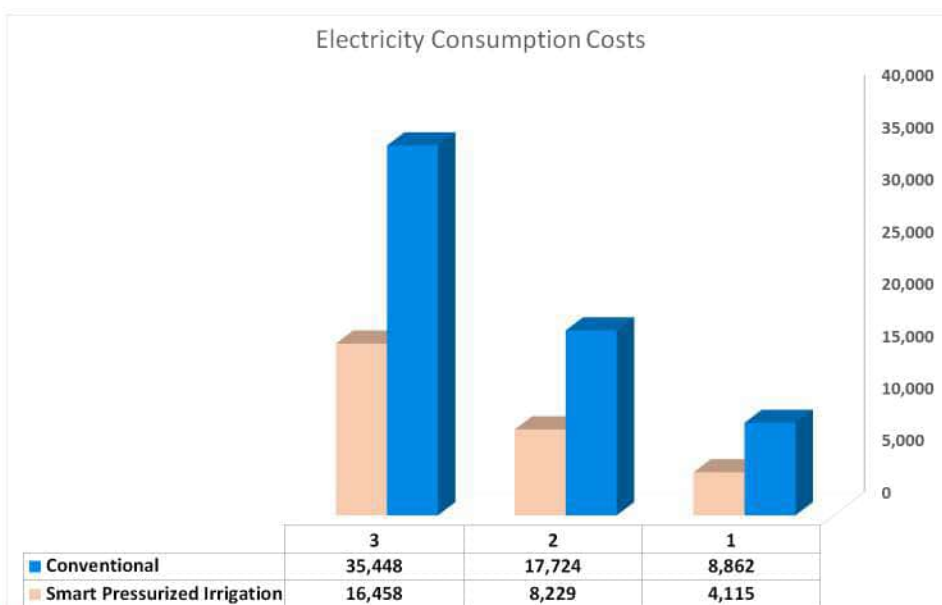
Solenoid: Valve 2", 200 - PEB - Valve 3", 300

Controller: ESP-RZX Series, SST Smart Series

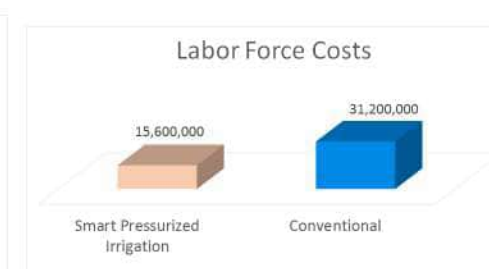


Monthly Labor Force	Monthly Electricity Consumption(kwh)	Monthly Water Consumption	System Type
2	42	70	Conventional
1	19.5	26	Smart Pressurized Irrigation

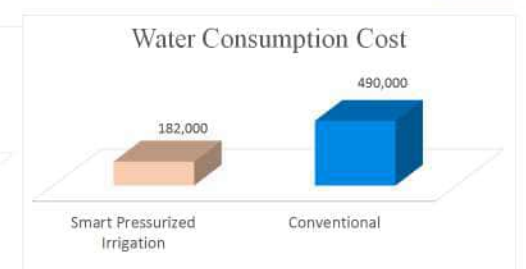
Smart Pressurized Irrigation	Conventional	Unit Price(Rial)	Costs Description	No
182,000	490,000	7,000	Water Consumption Cost	1
4,115	8,862	211	Low Load	2
8,229	17,724	422	Between	
16,458	35,448	844	Peak Times	
15,600,000	31,200,000	15,600,000	Monthly Labor Force	3
15,810,802	31,752,034		Total Costs	4



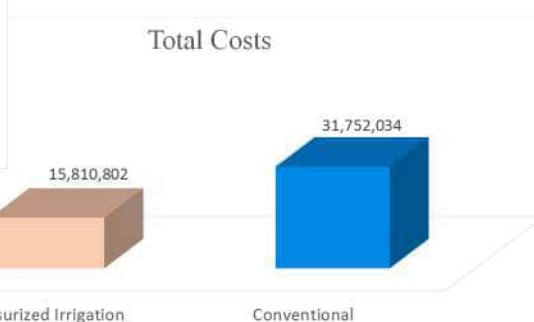
%53/5 Saving in Electricity Consumption Costs



%50 Saving in Labor Force Costs



%62/8 Saving in Water Consumption Costs



%50/2 Saving in Total Costs



گروه مهندسی آب فاطر
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گروه مهندسی آب فاطر
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Project Introduction

Gharazi Hospital

Contract Description: Implementation of Pressurized Irrigation of Gharazi Hospital

Project Location: Isfahan

Area: 40000 m²

Employer: Isfahan Social Security Organization

Type: Smart Sprinkler & Drip Irrigation

Year: 2014

Set per Interval: 13

Time per set: 6hr

Reservoir Type: Well, Discharge 50 m³/hr

Water Quality: Salinity

Soil Quality: Clay

Spray Nozzle: Van Series, R Series

Body: UNI-Spray Series

Rotor: Series 2045 ,8005 ,3500A Maxi-Paw

Sunbsurface Line: XFS - Subsurface Dripline

Solenoid: Valve 2", 200 - PEB - Valve 1", 100 DV

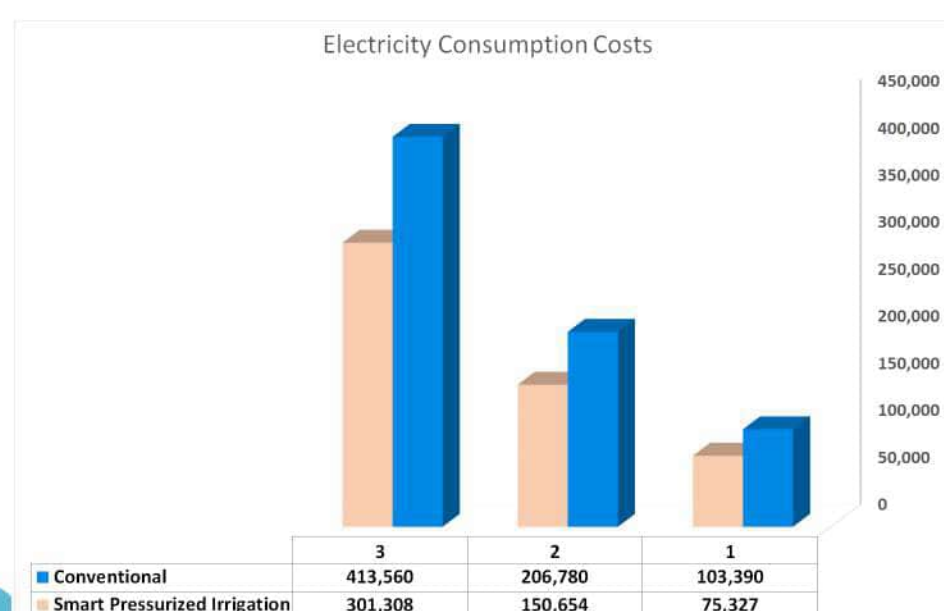
Controller: ESP-Modular, ESP - RZX , SST Smart Series

Bubbler: 30 & 70 l/h with Riser

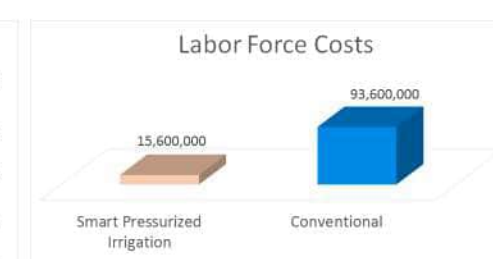


Monthly Labor Force	Monthly Electricity Consumption(kwh)	Monthly Water Consumption	System Type
6	490	800	Conventional
1	357	376	Smart Pressurized Irrigation

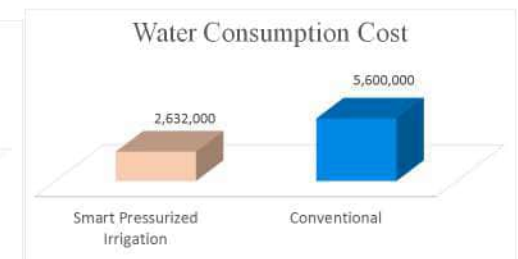
Smart Pressurized Irrigation	Conventional	Unit Price(Rial)	Costs Description	No
2,632,000	5,600,000	7,000	Water Consumption Cost	1
75,327	103,390	211	Low Load	2
150,654	206,780	422	Between	
301,308	413,560	844	Peak Times	
15,600,000	93,600,000	15,600,000	Monthly Labor Force	3
18,759,289	99,923,730		Total Costs	4



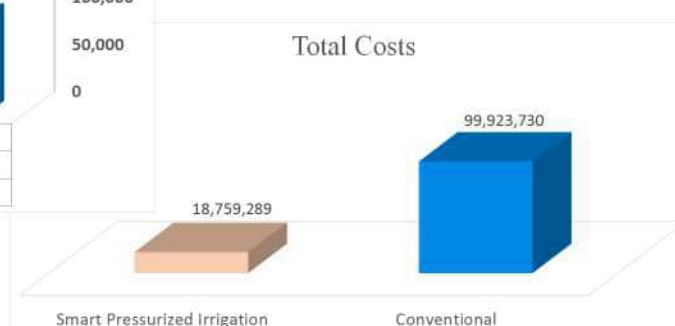
%27 Saving in Electricity Consumption Costs



%83/3 Saving in Labor Force Costs



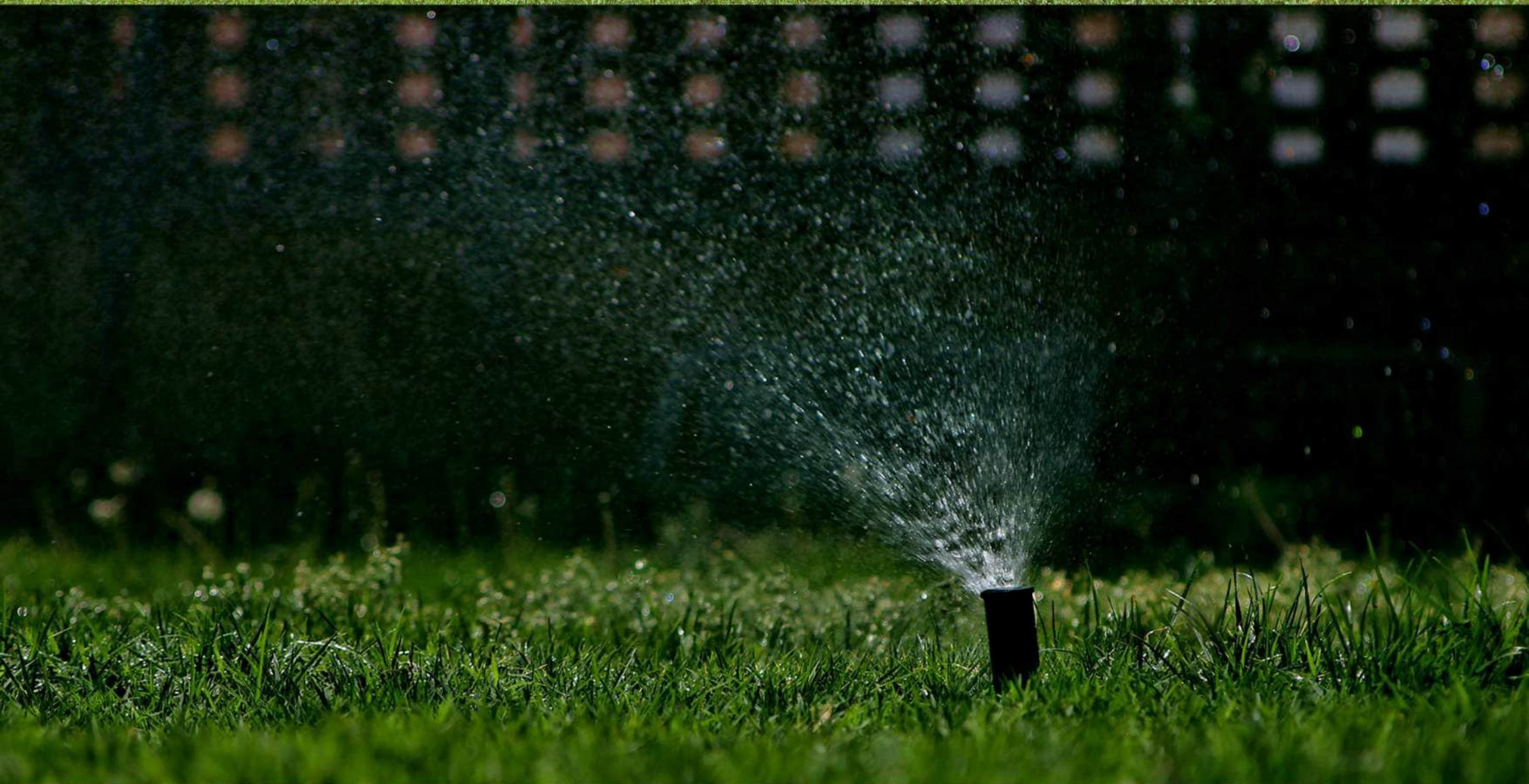
%53 Saving in Water Consumption Costs



%81/5 Saving in Total Costs



گروه مهندسی آب فاطر
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گروه مهندسی آب فاطر
Fater Irrigation Group

Project Introduction

Dr Hussaini's Villa

Contract Description: Implementation of Pressurized Irrigation of Dr Hussaini's Villa

Project Location: Isfahan

Area: 1500 m²

Employer: Dr Hussaini

Type: Smart Sprinkler & Drip Irrigation

Year: 2012

Set per Interval: 15

Time per set: 5hr

Reservoir Type: Well , Discharge 20 m³/hr

Water Quality: Good

Soil Quality: Moderate

Spray Nozzle: Van Series - R Series

Body: Spray Body 1804

Solenoid: Valve 100DV - 1" , Valve 200 PEB- 2"

Controller: *TBOS-II*

Micro Spray: Micro - Quick

Pump: wkl 80-4/120kw , Pedrollo - 0.75 kw

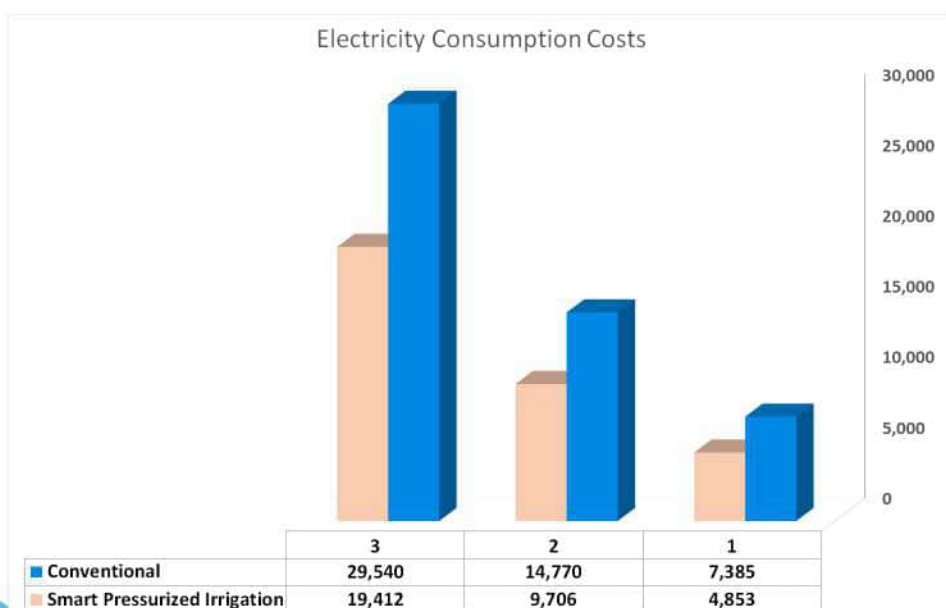
Disc Filter 3"

Bubbler & Riser



Monthly Labor Force	Monthly Electricity Consumption(kwh)	Monthly Water Consumption	System Type
1	35	45	Conventional
0	23	28	Smart Pressurized Irrigation

Smart Pressurized Irrigation	Conventional	Unit Price(Rial)	Costs Description	No
196,000	315,000	7,000	Water Consumption Cost	1
4,853	7,385	211	Low Load	2
9,706	14,770	422	Between	
19,412	29,540	844	Peak Times	
0	15,600,000	15,600,000	Monthly Labor Force	3
229,971	15,966,695		Total Costs	4



%68/3 Saving in Electricity Consumption Costs



%0 Saving in Labor Force Costs



%46/6 Saving in Water Consumption Costs



%12/4 Saving in Total Costs



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Project Introduction

Nahalestan

Contract Description: Implementation of Pressurized Irrigation of Nahalestan

Project Location: Isfahan

Area: 5000 m²

Employer: Isfahan Municipality

Type: Smart Sprinkler Irrigation

Year: 2012

Set per Interval: 12

Time per set: 1hr

Reservoir Type: Well , Discharge 30 m³/hr

Water Quality: Good

Soil Quality: Moderate

Spray Nozzle: Van Series , R Series

Body: Spray Body 1804

Rotor: Series 3500 , Series 8005

Solenoid: Valve 200 PEB- 2"

Controller: *ESP - LXME*

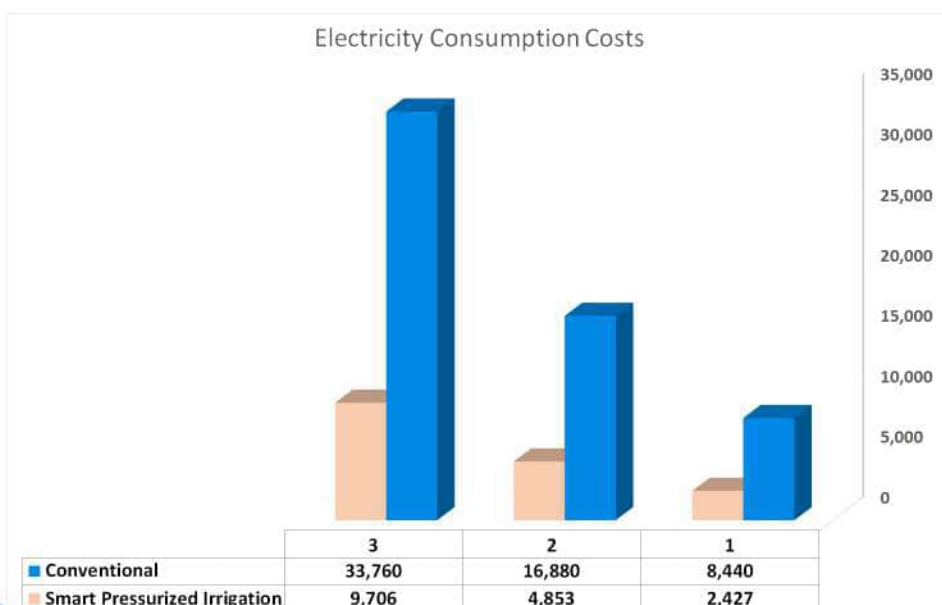
Air Vent

Pump: Ebara , MD40 - 11.5kw



Monthly Labor Force	Monthly Electricity Consumption(kwh)	Monthly Water Consumption	System Type
2	40	100	Conventional
1	11.5	18	Smart Pressurized Irrigation

Smart Pressurized Irrigation	Conventional	Unit Price(Rial)	Costs Description	No
126,000	700,000	7,000	Water Consumption Cost	1
2,427	8,440	211	Low Load	2
4,853	16,880	422	Between	
9,706	33,760	844	Peak Times	
15,600,000	31,200,000	15,600,000	Monthly Labor Force	3
15,742,986	31,959,080		Total Costs	4



%71/25 Saving in Electricity Consumption Costs



%50 Saving in Labor Force Costs



%82 Saving in Water Consumption Costs



%50/7 Saving in Total Costs



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Project Introduction

Distribution Control Center of Power Station

Contract Description: Implementation of Pressurized Irrigation of Dispatching

Project Location: Isfahan

Area: 7000 m²

Employer: Isfahan Regional Electric Company

Type: Smart Drip & Sprinkler Irrigation

Year: 2011

Set per Interval: 12

Time per set: 3hr

Reservoir Type: Pool , Volume 1000m³

Water Quality: Salinity

Soil Quality: Moderate

Spray Nozzle: Van Series , R Series , MPR Series

Solenoid: Valve 200 PEB- 2" , Valve 100DV - 1"

Air Vent 3/4"

Controller: *ESP - Modular*

Pump: Ebara 7.5kw

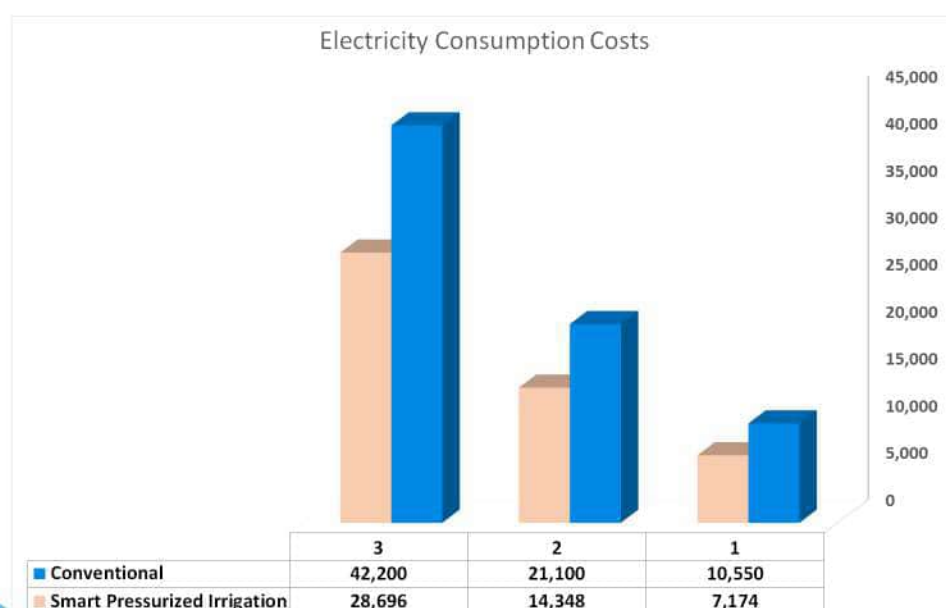
Bubbler & Riser

Disc Filter3"



Monthly Labor Force	Monthly Electricity Consumption(kwh)	Monthly Water Consumption	System Type
2	50	150	Conventional
1	34	80	Smart Pressurized Irrigation

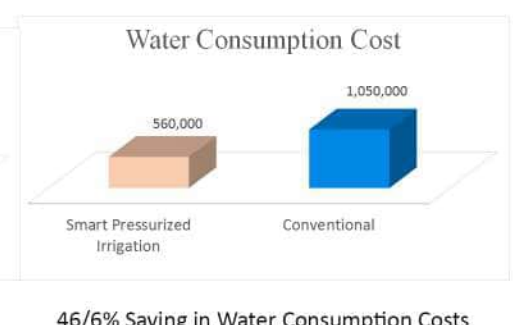
Smart Pressurized Irrigation	Conventional	Unit Price(Rial)	Costs Description	No
560,000	1,050,000	7,000	Water Consumption Cost	1
7,174	10,550	211	Low Load	2
14,348	21,100	422	Between	
28,696	42,200	844	Peak Times	
15,600,000	31,200,000	15,600,000	Monthly Labor Force	3
16,210,218	32,323,850		Total Costs	4



32% Saving in Electricity Consumption Costs



50% Saving in Labor Force Costs



46/6% Saving in Water Consumption Costs



8/49% Saving in Total Costs



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Chapter4

Pressurized Irrigation Projects



گروه مهندسی آب فاطر
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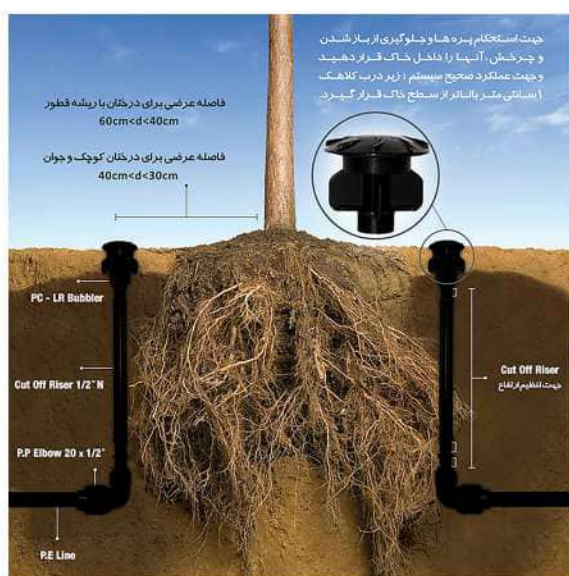
Project Introduction

Danesh & Ghotbe Ravandi

Contract Description: Implementation of Pressurized Irrigaion of Danesh & Ghotbe Ravandi

Prject Location: Isfahan Province, Kashan
Contract Price: 3,000,000,000 Rial
Area: 21 ha
Employer: 5th District Kashan Municipality
Type: Drip Irrigation
Year: 2015
Set per Interval: 4
Time per set: 3hr
Reservoir Type: Well, Discharg 100 m³/h

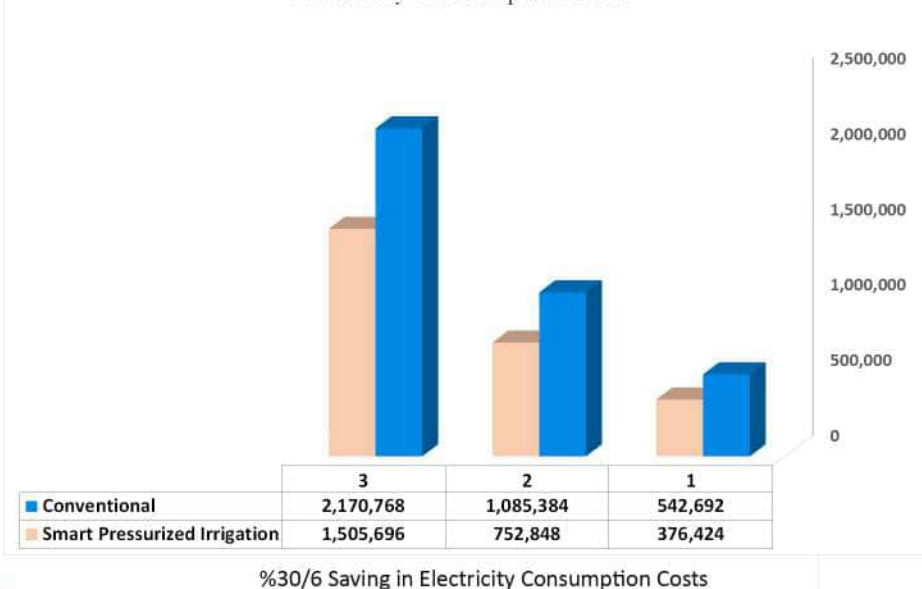
Water Quality: Good
Soil Quality: Heavy Texture
Bubbler: *PC-LR, PC-SR*
Riser: *cut off 1/2 N*



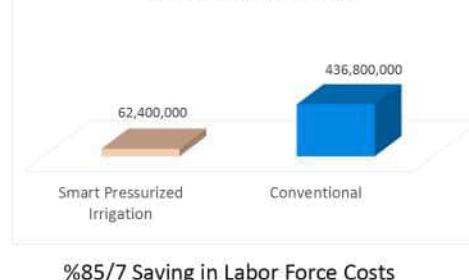
Monthly Labor Force	Monthly Electricity Consumption(kwh)	Monthly Water Consumption	System Type
28	2572	4200	Conventional
4	1784	1974	Smart Pressurized Irrigation

Smart Pressurized Irrigation	Conventional	Unit Price(Rial)	Costs Description	No
13,818,000	29,400,000	7,000	Water Consumption Cost	1
376,424	542,692	211	Low Load	2
752,848	1,085,384	422	Between	
1,505,696	2,170,768	844	Peak Times	
62,400,000	436,800,000	15,600,000	Monthly Labor Force	3
78,852,968	469,998,844		Total Costs	4

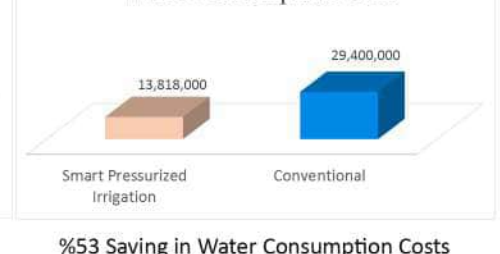
Electricity Consumption Costs



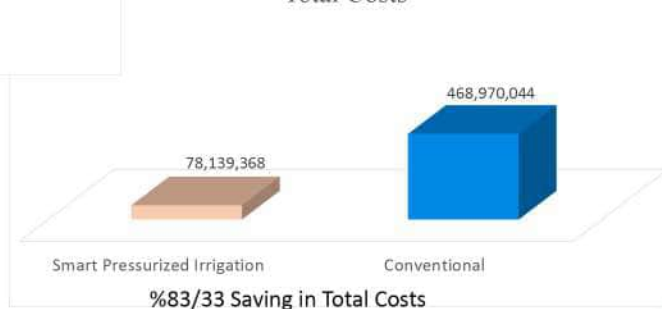
Labor Force Costs



Water Consumption Cost



Total Costs





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Project Introduction

Shahin Shahr East Camping

Contract Description: Implementation of Piping of Shahin Shahr East Camping and Pressurized Irrigation of Green Space of 2th District and Parvin Etesami Refuge &

Project Location: Isfahan Province, Shahin Shahr

Contract Price: 6,710,000,000 Rial

Area: 20 ha

Employer: Kashan Municipality

Type: Drip Irrigation

Year: 2016

Set per Interval: 10

Time per set: 2hr

Reservoir Type: Reservoir, Discharge 200 m³/h

Water Quality: Moderate

Soil Quality: Moderate

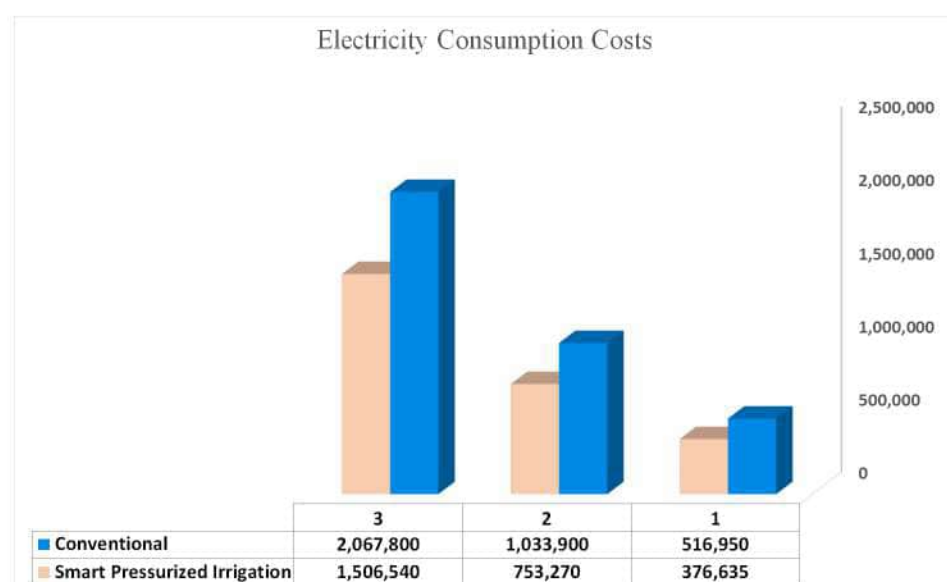
Bubbler: PC-9LR

Riser: cut off 1/2 N

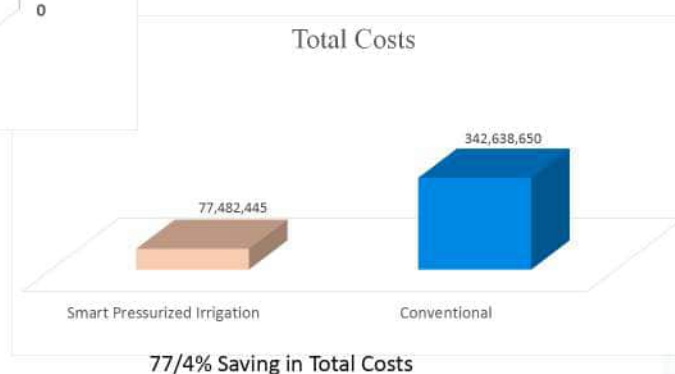
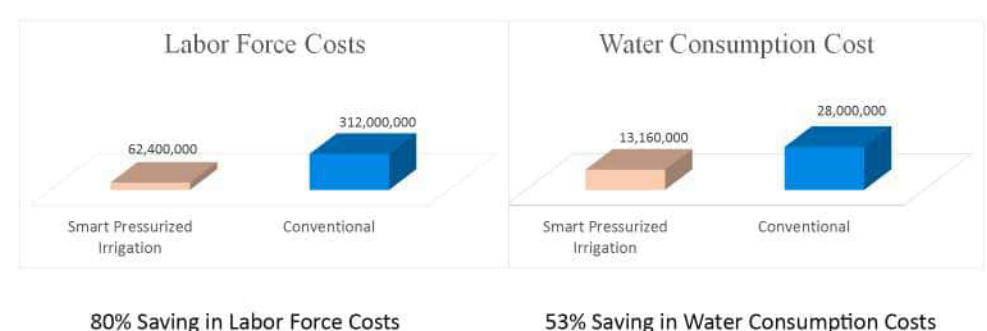


Monthly Labor Force	Monthly Electricity Consumption(kwh)	Monthly Water Consumption	System Type
20	2450	4000	Conventional
4	1785	1880	Smart Pressurized Irrigation

Smart Pressurized Irrigation	Conventional	Unit Price(Rial)	Costs Description	No
13,160,000	28,000,000	7,000	Water Consumption Cost	1
376,635	516,950	211	Low Load	2
753,270	1,033,900	422	Between	
1,506,540	2,067,800	844	Peak Times	
62,400,000	312,000,000	15,600,000	Monthly Labor Force	3
78,196,445	343,618,650		Total Costs	4



27% Saving in Electricity Consumption Costs







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Project Introduction

Youth housing

Contract Description: piping implementation for developing green space of youth housing, Janat St, South Keshavarz St, Pardis Sq, Arg Complex, Hemat Park, Masroor St &.....

Project Location: Isfahan Province, Shahin Shahr

Contract Price:: 21,900,000,000 Rial

Area: 80 ha

Employer: Shahin Shahr Municipality

Type: Drip Irrigation

Year: 2016-2017

Set per Interval: 20

Time per set: 4hr

Reservoir Type: Reservoir, Discharg 200 m3/h

Water Quality: Moderate

Soil Quality: Moderate

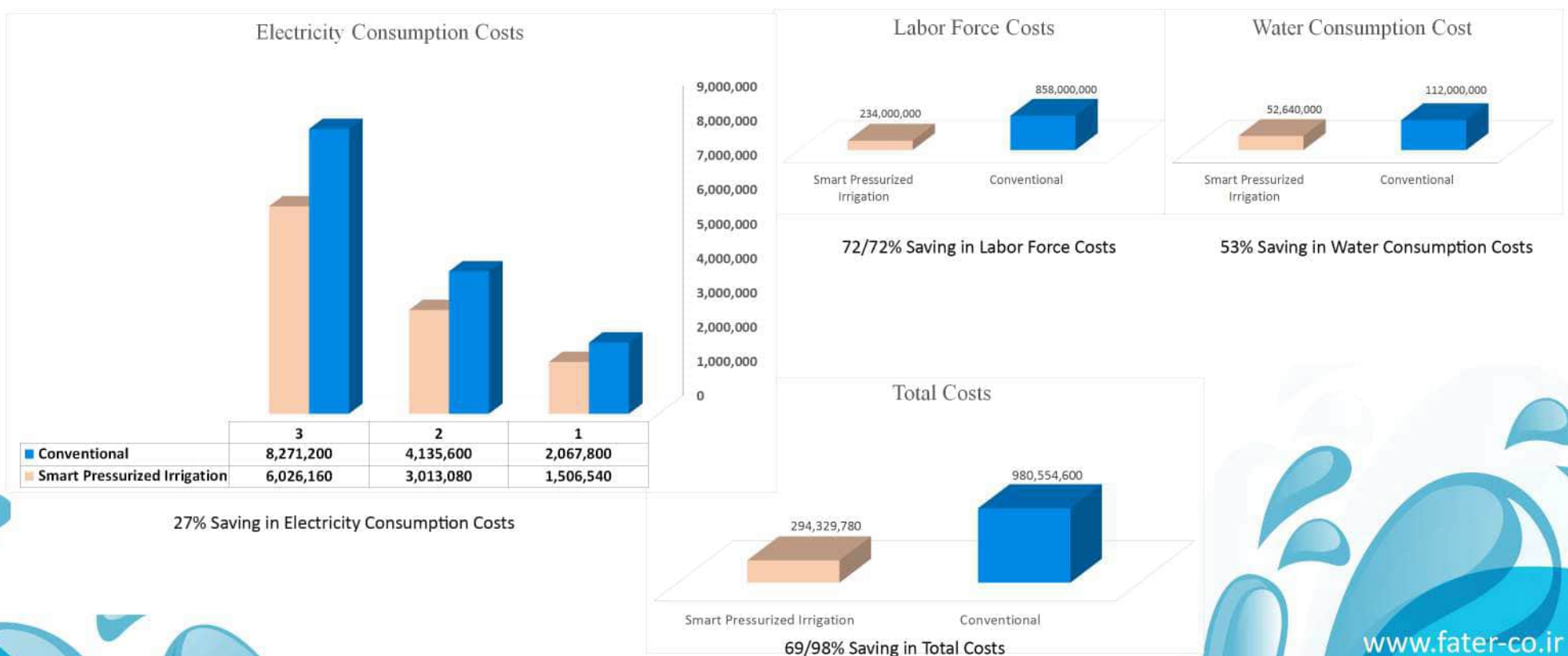
Bubbler: *PC-9LR*

Riser: *cut off 1/2 N*



Monthly Labor Force	Monthly Electricity Consumption(kwh)	Monthly Water Consumption	System Type
55	9800	16000	Conventional
15	7140	7520	Smart Pressurized Irrigation

Smart Pressurized Irrigation	Conventional	Unit Price(Rial)	Costs Description	No
52,640,000	112,000,000	7,000	Water Consumption Cost	1
1,506,540	2,067,800	211	Low Load	2
3,013,080	4,135,600	422	Between	
6,026,160	8,271,200	844	Peak Times	
234,000,000	858,000,000	15,600,000	Monthly Labor Force	3
297,185,780	984,474,600		Total Costs	4





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Project Introduction

Mahyar

Contract Description: Implementation and Design of Pressurized Irrigation and Drinking water Network of Mahyar Villas

Project Location: Isfahan Province, Kolah Ghazi Region

Contract Price: 18,000,000,000 Rial

Area: 60 ha

Employer: Dr Seyed Hussein

Type: Drip & Sprinkler Irrigation

Year: 2016

Set per Interval: 20

Time per set: 3hr

Reservoir Type: Reservoir, Discharge 200 m³/h

Water Quality: Moderate

Soil Quality: Moderate

Bubbler: PC-LR

Riser: cut off 1/2 N

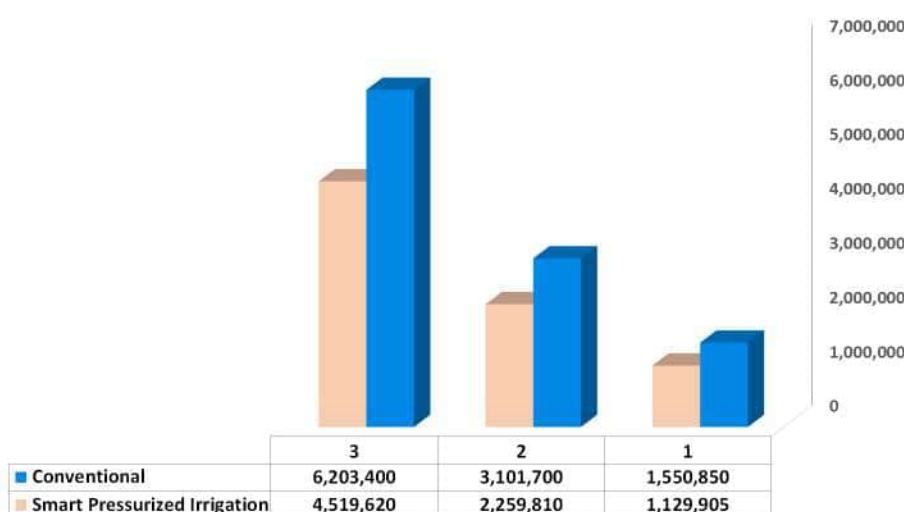
Sprinkler: LF



Monthly Labor Force	Monthly Electricity Consumption(kwh)	Monthly Water Consumption	System Type
50	7350	12000	Conventional
10	5355	5640	Smart Pressurized Irrigation

Smart Pressurized Irrigation	Conventional	Unit Price(Rial)	Costs Description	No
39,480,000	84,000,000	7,000	Water Consumption Cost	1
1,129,905	1,550,850	211	Low Load	2
2,259,810	3,101,700	422	Between	
4,519,620	6,203,400	844	Peak Times	
156,000,000	780,000,000	15,600,000	Monthly Labor Force	3
203,389,335	874,855,950		Total Costs	4

Electricity Consumption Costs



27% Saving in Electricity Consumption Costs

Labor Force Costs



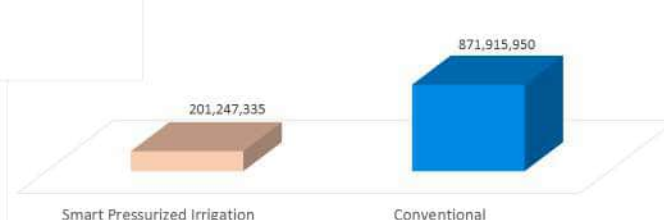
80% Saving in Labor Force Costs

Water Consumption Cost



53% Saving in Water Consumption Costs

Total Costs



77% Saving in Total Costs



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Project Introduction

Refinery Forests

Contract Description: Implementation of Pressurized Irrigation of Refinery Forest and Refinery Blv and Construction of the Building of the Pumping Station and Filtration

Project Location: Isfahan

Contract Price: 8,629,420,000 Rial

Area: 43 ha

Employer: Oil Refinery

Type: Drip Irrigation

Year: 2013

Set per Interval: 10

Time per set: 4hr

Reservoir Type: Well, Discharge 80 m³/h

Water Quality: Moderate

Soil Quality: Moderate

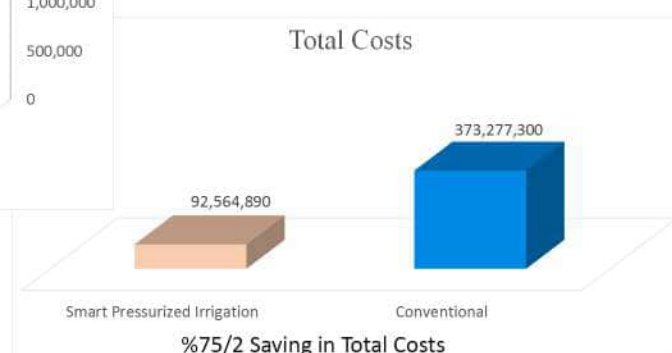
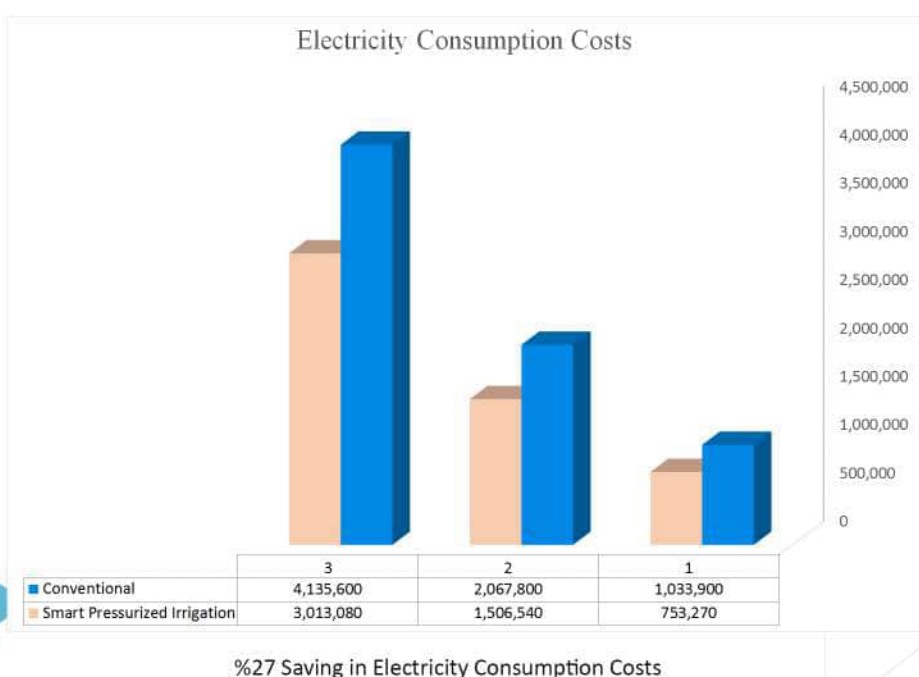
Bubbler: PC-LR

Riser: cut off 1/2 N



Monthly Labor Force	Monthly Electricity Consumption(kwh)	Monthly Water Consumption	System Type
20	4900	8000	Conventional
4	3570	3760	Smart Pressurized Irrigation

Smart Pressurized Irrigation	Conventional	Unit Price(Rial)	Costs Description	No
26,320,000	56,000,000	7,000	Water Consumption Cost	1
753,270	1,033,900	211	Low Load	2
1,506,540	2,067,800	422	Between	
3,013,080	4,135,600	844	Peak Times	
62,400,000	312,000,000	15,600,000	Monthly Labor Force	3
93,992,890	375,237,300		Total Costs	4





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