

ضمیمه شماره 1 شرطنامه (مشخصات تخنیکي و جداول تحویلدهی) پروژه تهیه و تدارک مواد خام،
مواد ساختمانی، موتور، تجهیزات و ماشینری مورد ضرورت ریاست ساختمانی امور برق شامل 7 لات

شماره داوطلبی : NPD/DABS/1403/G-566/NCB

مشخصات تخنیکي مواد خام لات اول

1. مشخصات تخنیکي سمټ

Cement

Cement shall conform to the requirements of ASTM specification C-150 Type 1 or similar approved standard for normal Portland cement.

Cement shall be free from any hardened lumps and foreign matter. It shall have a minimum of 90% of particles by weight passing the 75 micron sieve, an initial setting time in excess of 30 minutes and a final setting time of less than 7 hours.

2. مشخصات تخنیکي سیخ فولادی پرستریس 7 میلی رځدار برای تولید پایه های آهن کانکرتی گول.

Pre-Stressing steel Wire for production of pre-stressing spun concrete pole, conforming to ASTM A421, BS 5896, ISO 6934-2 or Equivalent Standard.

- a. Tensile strength min 1670 MPA
- b. Nominal cross section area 38.5 mm²
- c. Mass per length: nominal 302 g/m and permissible deviation 4,3
- d. Maximum force 64.3 KN
- f. Elongation shall not be less than 4 %

Pre-stressing deform steel wire shall be free from flaws or defects. It must be free from rust, grease, pitting, mud, loose scale, mortar or any other foreign, material or materials that may impair the quality. Bars shall be in one length, as far as practicable without welding, supplied as rounding bundle or coil length not more than 1000 kg per bundle.

For each batch of reinforcing bar supplied to site the Contractor shall submit a supplier's certificate to the Engineer confirming that the bar conforms to specification.

The Engineer may order laboratory testing of reinforcing bar to be used in the Works in which case samples shall be cut by the Contractor as directed by the Engineer.

3. مشخصات تخنیکي سیخ فولادی پرستریس 9 میلی رځدار برای تولید پایه های آهن کانکرتی گول.

Pre-Stressing steel wire for production of pre-stressing spun concrete pole, conforming to ASTM A421 or ISO 6934-2 or BS 5896 or Equivalent Standard.

- a. Tensile strength min 1570 MPA
- b. Nominal cross section area 63.6 mm²
- c. Mass per length: nominal 499 gr/m and permissible deviation 4,3
- e. Proof force 99.85 KN
- f. Elongation shall not be less than 4 %

Pre-stressing deform steel bar shall be free from flaws or defects. It must be free from rust, grease, pitting, mud, loose scale, mortar or any other foreign, material or materials that may impair the quality.

Bars shall be in one length, as far as practicable without welding, supplied as rounding bundle or coil length not more than 1000 kg per bundle.

For each batch of reinforcing bar supplied to site the Contractor shall submit a supplier's certificate to the Engineer confirming that the bar conforms to specification.

The Engineer may order laboratory testing of reinforcing bar to be used in the Works in which case samples shall be cut by the Contractor as directed by the Engineer.

4. مشخصات تخنیکي سیم چهار میلی بدون رځ برای ساخت اسپایرل پایه های گول آهن کانکرتی برق رسانی.

Spiral wire for production of pre-stressing spun concrete pole, conforming to ASTM A82 or Equivalent Standard.

- a. Tensile strength min 500 MPA
- b. Nominal cross section area 12.9 mm²
- c. Maximum force 7.1 KN



Spiral wire shall be free from flaws or defects. It must be free from rust, grease, pitting, mud, loose scale, mortar or any other foreign, material or materials that may impair the quality.

Wire shall be in one length, as far as practicable without welding, supplied as rounding bundle or coil not more than 50 kg per bundle.

For each batch of wire supplied to site the Contractor shall submit a supplier's certificate to the Engineer confirming that the bar conforms to specification.

The Engineer may order laboratory testing of spiral wire to be used in the Works in which case samples shall be cut by the Contractor as directed by the Engineer.

5. مشخصات تخنیکي سیخ تعمیراتی 8 میلی بدون رخ برای ساخت رینگ یا گژدمک پایه های آهن کانکریتی گول.

Plain round steel bar using as stirrup for production of pre-stressing spun concrete pole. conforming to ASTM A615 or BS 4449 or Equivalent Standard.

- a. Tensile strength min 420 MPA
- b. Nominal cross section area 50.3 mm²
- c. Mass per length: nominal 395 gr/m and permissible deviation $6.5 \pm$
- d. Maximum force 21.15 KN

Plain round steel bar shall be free from flaws or defects. It must be free from rust, grease, pitting, mud, loose scale, mortar or any other foreign, material or materials that may impair the quality.

Bars shall be in one length, as far as practicable without welding, supplied as rounding bundle or coil not more than 1000 kgr per bundle.

For each batch of reinforcing bar supplied to site the Contractor shall submit a supplier's certificate to the Engineer confirming that the bar conforms to specification. Bars purchased in small lots from a dealer may be accepted at the discretion of the Engineer upon proof that they meet these Specifications.

The Engineer may order laboratory testing of reinforcing bar to be used in the Works in which case samples shall be cut by the Contractor as directed by the Engineer.

6. مشخصات تخنیکي جغل بادامی ونخودی به سائز کوچتر از 18 میلی متر بزرگتر از 4 میلی متر، پره دار، مقاوم و پاک از

مواد اضافی از جمله خاک.

~~coarse aggregates shall be field tested and evaluated. aggregate shall conform to ASTM C33/C 33M for~~

The coarse aggregates shall be evaluated separately and in combination, which matches the proposed mix design proportioning.

Except where otherwise stated, coarse aggregate shall consist of hard, durable angular fragments of crushed stone and/or crushed natural gravel conforming to the following grading:

The aggregate shall have a Flakiness Index of less than 30, and shall be clean and free from dust and other deleterious substances. The Contractor shall supply samples of the aggregate materials as required by the Engineer.

If the Contractor proposes to change the source of supply of aggregate, samples from the new source shall similarly be supplied and tested.

7. مشخصات تخنیکي ریگ شسته شده پاک از مواد اضافی مضر از جمله خاک جهت استفاده در تولید پایه های آهن کانکریتی گول.

Fine aggregate shall be clean washed concrete grad sand, free of clay other deleterious matter and shall confirm ASTM C33, All the material shall pass 4.75mm sieve and not more than 3% by weight shall pass a 75-micron sieve.



8. مشخصات تکنیکی سیخ ولدینگ اصلی 3 میلی جهت ولدینگ کاری گزدمک ها

Package: 2.5/5kgs /Inner Box and 20kg Outer Box

Specification: 3.2x350mm

Trademark: Great Wall

Size: 302mm

Color: Any

9. مشخصات تکنیکی سیم جستی 1 میلی برای بسته کاری سیخبندی پایه های تولیدی

Specification: Steel bending wire for tie thread rebar of Concrete

Diameter: 1 mm

Confireming ASTM or Equavilent Standards.

10. مشخصات تکنیکی برای پل چرخ 9 انچ اصلی

Size: 9 inch

Type: Steel, Metal Cutting Wheel

Dimension : (3x25x230) mm

11. مشخصات تکنیکی برای پل کتر 14 انچ اصلی

Size: 14 inch

Type: Steel, Metal Cutting Wheel

Dimension : (3x25x355) mm





جنرال تحویل دهي مواد خام مورد نیاز تولید پایه های آهن کاتکریتی مختلف السایر در فابریکه پایه سازی هو دخیل کابل

ملاحظات	ربع چهارم معیناد قرار داد	ربع سوم معیناد قرار داد	ربع دوم معیناد قرار داد	ربع اول معیناد قرار داد	واحد	مقدار	اسم جنس	شماره
	7,500.00	7,500.00	7,500.00	7,500.00	خریطه	30,000.00	سمنت مارک (10,000PSI)	1
	83.50	83.50	83.50	83.50	تن	334.00	سیخ پرسترس 7 میلی رخدار	2
	0.00	0.00	15.00	16.00	تن	31.00	سیخ پرسترس 9 میلی رخدار	3
	22.75	22.75	22.75	22.75	تن	91.00	سیخ اسبرل 4 میلی بدون رخ	4
	8.25	8.25	8.25	8.25	تن	33.00	سیخ تعمیراتی 8 میلی بدون رخ	5
	1,050.00	1,050.00	1,050.00	1,050.00	مترمکعب	4,200.00	چغل پادای و نخودی	6
	650.00	650.00	650.00	650.00	مترمکعب	2,600.00	ریگ شسته شده	7
	0.00	0.00	0.00	740.00	کیلوگرام	740.00	سیخ ولدنگ سه میلی	8
	0.00	0.00	0.00	1.50	تن	1.50	سیم جستی یک میلی	9
	0.00	0.00	0.00	1,500.00	قرص	1,500.00	پل چرخ اصلی 9 انچ	10
	0.00	0.00	0.00	800.00	قرص	800.00	پل کتر اصلی 14 انچ	11

نوٹ : شرکت قرار دادی نظر به توانایی میتواند اقلام شماره 2,3,4,5,8,9,10,11 را در ربع اول تحویل نماید
تاییدی مرجع نیاز مند!

۱۳۹۰/۰۵/۰۴



لغات اول

مشخصات تخنیکي مواد خام لات دوم پلخمری

1- مشخصات تخنیکي سیخ فولادی پرستریس 7 میلی رخدار برای تولید پایه های آهن کانکرتی گول

Pre-Stressing steel Wire for production of pre-stressing spun concrete pole, conforming to ASTM A421, BS 5896, ISO 6934-2 or Equivalent Standard.

- Tensile strength min 1670 MPA
- Nominal cross section area 38.5 mm²
- Mass per length: nominal 302 g/m and permissible deviation 4,3
- Maximum force 64.3 KN
- Elongation shall not be less than 4 %

Pre-stressing deform steel wire shall be free from flaws or defects. It must be free from rust, grease, pitting, mud, loose scale, mortar or any other foreign, material or materials that may impair the quality. Bars shall be in one length, as far as practicable without welding, supplied as rounding bundle or coil length not more than 1000 kg per bundle.

For each batch of reinforcing bar supplied to site the Contractor shall submit a supplier's certificate to the Engineer confirming that the bar conforms to specification.

The Engineer may order laboratory testing of reinforcing bar to be used in the Works in which case samples shall be cut by the Contractor as directed by the Engineer.

2- مشخصات تخنیکي سیخ فولادی پرستریس 9 میلی رخدار برای تولید پایه های آهن کانکرتی گول

Pre-Stressing steel wire for production of pre-stressing spun concrete pole, conforming to ASTM A421 or ISO 6934-2 or BS 5896 or Equivalent Standard.

- Tensile strength min 1570 MPA
- Nominal cross section area 63.6 mm²
- Mass per length: nominal 499 gr/m and permissible deviation 4,3
- Proof force 99.85 KN
- Elongation shall not be less than 4 %

Pre-stressing deform steel bar shall be free from flaws or defects. It must be free from rust, grease, pitting, mud, loose scale, mortar or any other foreign, material or materials that may impair the quality.

Bars shall be in one length, as far as practicable without welding, supplied as rounding bundle or coil length not more than 1000 kg per bundle.

For each batch of reinforcing bar supplied to site the Contractor shall submit a supplier's certificate to the Engineer confirming that the bar conforms to specification.

The Engineer may order laboratory testing of reinforcing bar to be used in the Works in which case samples shall be cut by the Contractor as directed by the Engineer.

3- مشخصات تخنیکي سیم چهار میلی بدون رخ برای ساخت اسپایرل پایه های گول آهن کانکرتی برق رسانی.

Spiral wire for production of pre-stressing spun concrete pole, conforming to ASTM A82 or Equivalent Standard.

- Tensile strength min 500 MPA
- Nominal cross section area 12.9 mm²
- Maximum force 7.1 KN

Spiral wire shall be free from flaws or defects. It must be free from rust, grease, pitting, mud, loose scale, mortar or any other foreign, material or materials that may impair the quality.



Wire shall be in one length, as far as practicable without welding, supplied as rounding bundle or coil not more than 50 kg per bundle.

For each batch of wire supplied to site the Contractor shall submit a supplier's certificate to the Engineer confirming that the bar conforms to specification.

The Engineer may order laboratory testing of spiral wire to be used in the Works in which case samples shall be cut by the Contractor as directed by the Engineer.

4- مشخصات تکنیکی سیخ تعمیراتی 8 میلی بدون رخ برای ساخت رینگ یا گزدمک پایه های آهن کانکرتی گول

Plain round steel bar using as stirrup for production of pre-stressing spun concrete pole. conforming to ASTM A615 or BS 4449 or Equivalent Standard.

- Tensile strength min 420 MPA
- Nominal cross section area 50.3 mm²
- Mass per length: nominal 395 gr/m and permissible deviation $\pm 6.5\%$
- Maximum force 21.15 KN

Plain round steel bar shall be free from flaws or defects. It must be free from rust, grease, pitting, mud, loose scale, mortar or any other foreign, material or materials that may impair the quality.

Bars shall be in one length, as far as practicable without welding, supplied as rounding bundle or coil not more than 1000 kgr per bundle.

For each batch of reinforcing bar supplied to site the Contractor shall submit a supplier's certificate to the Engineer confirming that the bar conforms to specification. Bars purchased in small lots from a dealer may be accepted at the discretion of the Engineer upon proof that they meet these Specifications.

The Engineer may order laboratory testing of reinforcing bar to be used in the Works in which case samples shall be cut by the Contractor as directed by the Engineer.

5- مشخصات تکنیکی سیخ ولدینگ اصلی 3 میلی جهت ولدینگ کاری گزدمک ها

Package: 2.5/5kgs /Inner Box and 20kg Outer Box

Specification: 3.2x350mm

Trademark: Great Wall

Size: 302mm

Color: Any

6- مشخصات تکنیکی سیم جستی 1 میلی برای بسته کاری سیجبدی پایه های تولیدی

Specification: Steel bending wire for tie thread rebar of Concrete

Diameter: 1 mm

Confirmering ASTM or Equavilent Standards.

7- مشخصات تکنیکی برای پل چرخ 9 انچ اصلی

Size: 9 inch

Type: Steel, Metal Cutting Wheel

Dimension : (3x25x230) mm



انجینئر محمد کبیر صہوری
مدیر عملیاتی

جدول تحويل دهي مواد جهت توليد بایه های آهن کاتریتی مختلف السایر در فابریکه بایه سازی بلخمری

ملاحظات	ربع چهارم معیاد قرار داد	ربع سوم معیاد قرار داد	ربع دوم معیاد قرار داد	ربع اول معیاد قرار داد	واحد	مقدار	اسم جنس	نمره
	74.10	74.10	74.10	74.10	تن	296.40	سیخ پرسترس 7 میلی رخدار	
	21.65	21.65	21.65	21.65	تن	86.60	سیخ پرسترس 9 میلی رخدار	
	22.00	22.00	22.00	22.00	تن	88.00	سیخ اسپرل 4 میلی بدون رخ	
	0.00	0.00	15.00	18.38	تن	33.38	سیخ تعمیراتی 8 میلی بدون رخ	
	105.00	105.00	105.00	106.00	کیلوگرام	421.00	سیخ ولدنگ سه میلی	
	0.00	0.00	0.00	0.63	تن	0.63	سیم جستی یک میلی	
	0.00	0.00	1,150.00	1,150.00	قرص	2,300.00	پل چرخ اصلی 9 انچ	

شركت قرار دادی نظر به توانایی میتواند از اقلام شمار 2 الی 7 را در ربع اول تحويل نماید

بی مرجع نیاز مند!

۲۲۶۰۰۰۰





لایحه دوم

مشخصات تخنیکي مواد خام موړنیاز پایه سازی هرات
لړۍ سوم

Cement

1. مشخصات سمنت

Cement shall conform to the requirements of ASTM specification C-150 Type 2 or similar approved standard for normal Portland cement.

Cement shall be free from any hardened lumps and foreign matter. It shall have a minimum of 90% of particles by weight passing the 75 micron sieve, an initial setting time in excess of 45 minutes and a final setting time of less than 6 hours.

2. مشخصات تخنیکي سیخ ۱۶ میلی رخدار

• Deform Bar, conforming to ASTM A615 or Equivalent Standard with a yield strength of not less than 420MPa (N/mm²) i.e. 60 grade

- Tensile strength min 90000 PSI 620 MPA
- Nominal cross section area 199 mm²
- Mass per length: nominal 1.552 kg/m and permissible deviation 4,3
- Elongation shall not be less than 9 %

Deform Bar shall be free from flaws or defects. It must be free from rust, grease, pitting, mud, loose scale, mortar or any other foreign, material or materials that may impair the quality.

Bars shall be in one length as far as practicable without welding.

For each batch of reinforcing bar supplied to site the Contractor shall submit a supplier's certificate to the Engineer confirming that the bar conforms to specification. Bars purchased in small lots from a dealer may be accepted at the discretion of the Engineer upon proof that they meet these Specifications.

The Engineer may order laboratory testing of reinforcing bar to be used in the Works in which case samples shall be cut by the Contractor as directed by the Engineer

3. مشخصات تخنیکي سیخ ۸ میلی تعمیراتی رخدار

• Deform Bar, conforming to ASTM A615 or Equivalent Standard, with a yield strength of not less than 420MPa (N/mm²) i.e. 60 grade

- Tensile strength min 90000 PSI 620 MPA
- Nominal cross section area 50.2 mm²
- Mass per length: nominal 395 g/m and permissible deviation
- Elongation shall not be less than 9 %

Deform Bar shall be free from flaws or defects. It must be free from rust, grease, pitting, mud, loose scale, mortar or any other foreign, material or materials that may impair the quality.

Bars shall be in one length as far as practicable without welding.

For each batch of reinforcing bar supplied to site the Contractor shall submit a supplier's certificate to the Engineer confirming that the bar conforms to specification. Bars purchased in small lots from a dealer may be accepted at the discretion of the Engineer upon proof that they meet these Specifications.

[Signature]



[Signature]

The Engineer may order laboratory testing of reinforcing bar to be used in the Works in which case samples shall be cut by the Contractor as directed by the Engineer

4. مشخصات تکنیکی سیخ ۶ میلی تعمیراتی رخدار یا بدون رخ

• Deform Bar, conforming to ASTM A615 or Equivalent Standard, with a yield strength of not less than 420MPa (N/mm²) i.e. 40 grade

- Tensile strength min 90000 PSI 620 MPA
- Nominal cross section area 28.25 mm²
- Mass per length: nominal 221.9 g/m and permissible deviation 4,3
- Elongation shall not be less than 9 %

Deform Bar shall be free from flaws or defects. It must be free from rust, grease, pitting, mud, loose scale, mortar or any other foreign, material or materials that may impair the quality.

Bars shall be in one length as far as practicable without welding.

For each batch of reinforcing bar supplied to site the Contractor shall submit a supplier's certificate to the Engineer confirming that the bar conforms to specification. Bars purchased in small lots from a dealer may be accepted at the discretion of the Engineer upon proof that they meet these Specifications.

The Engineer may order laboratory testing of reinforcing bar to be used in the Works in which case samples shall be cut by the Contractor as directed by the Engineer

5. مشخصات تکنیکی جفل بادامی ونخودی شسته ریگ ریشن به سایز کوچتر از ۲۵ میلی متر بزرگتر از ۴ میلی متر، پره دار، مقاوم و پاک از مواد اضافی از جمله

coarse aggregates shall be field tested and evaluated. aggregate shall conform to ASTM C33/C 33M for The coarse aggregates shall be evaluated separately and in combination, which matches the proposed mix design proportioning.

Except where otherwise stated, coarse aggregate shall consist of hard, durable angular fragments of crushed stone and/or crushed natural gravel conforming to the following grading:

The aggregate shall have a Flakiness Index of less than 30, and shall be clean and free from dust and other deleterious substances. The Contractor shall supply samples of the aggregate materials as required by the Engineer.

If the Contractor proposes to change the source of supply of aggregate, samples from the new source shall similarly be supplied and tested.

6. مشخصات تکنیکی ریگ ماسه شسته شده ریگ ریشن از سایز ۰.۱ الی ۰.۶ میلی متر پاک از مواد اضافی مضر از جمله خاک جهت استفاده در توف

Fine aggregate shall be clean washed concrete grad sand, free of clay other deleterious matter and shall confirm ASTM C33, All the material shall pass 4.75mm sieve and not more than 3% by weight shall pass a 75-micron

ve.

7. مشخصات تکنیکی سیم جستی ۱.۵ میلی برای بسته کاری سیخبندی پایه های تولیدی

Specification: Steel bending wire for tie thread rebar of Concrete

Diameter: 1.5 mm

Conforming ASTM or Equivalent Standards.

8. تیل دیزل L 0.5 برای جرب کاری قالب ها

با احترام

محمد طیب (شیرزاد)
مدیر عمومی فابریکه پایه سازی



انجینر زمري (میهنپار)
معاون عملیاتی فابریکه پایه سازی

جدول تحويل دهي مواد خام پروسه توليد پايه های آهن کاتکرتي مختلف السایر در قاهریکه پایه سازی ولایت هرات

شماره	اسم چلنس	مقدار	واحد	ربع اول معیاد قرار داد	ربع دوم معیاد قرار داد	ربع سوم معیاد قرار داد	ربع چهارم معیاد قرار داد	ملاحظات
1	ساخت سارک 400 پودر گندت سیاه تیپ 2 پودر گند	287,265.00	کیلو گرام	71,817.00	71,816.00	71,816	71816	
2	سیخ 16 ملی رخداری	178,640.00	کیلو گرام	44,660.00	44,660.00	44660	44660	
3	سیخ 8 ملی رخداری	5,626.50	کیلو گرام	1,406.63	1,406.63	1406.625	1406.625	
4	سیخ 6 ملی (بدون رخ)	4,228.00	کیلو گرام	1,057.00	1,057.00	1057	1057	
5	سیخ 1.5 ملی	995.75	کیلو گرام	248.94	248.94	248.9375	248.9375	
6	ریگ ماسه شسته ریگریشن	481.77	متر مکعب	120.44	120.44	120.4425	120.4425	
7	جفل مکس بادامی و نخودی شسته ریگریشن	326.47	متر مکعب	81.62	81.62	81.6175	81.6175	
8	تیل دیزل L05 برای چرب کاری قالب ها	2,950.00	لیتر	737.50	737.50	737.5	737.5	

نوت : شرکت قرار دادی نظر به توانایی میتواند از اقلام شمار 2 الی 5 جدول اقلام را در ربع اول تحويل نماید

تاییدی مرجع نیاز مند !

د افغانستان برېښنا شرکت
P.C.D.
برېښنا
ریاست ساختمانی امور برق
مدیریت عمومی پلان و انجنیری

۱۳۰۰/۰۵/۰۵

رات سوم

Sr. No	مشخصات لات چهارم ریاست ساختمانی امور برق آهن باب 1403		توضیح مطابقت	
			ندارد	دارد
1	آهن تخته سیاه با ابعاد 1250x2500 x 1.5mm			
	standard	ONE OF : AISI,ASTM,DIN,JIS,CE , , OR THEIR EQUIVALENT		
	Thickness	1.5mm		
	Width	1250mm		
	Length	2500mm		
	Type	Steel Plate		
	Technique	Cold Rolled		
	Surface	Smooth		
	Special Use	High-Strength Steel Plate		
2	آهن تخته سیاه با ابعاد 1000x2000 x 1.2mm			
	standard	ONE OF : AISI,ASTM,DIN,JIS,CE , , OR THEIR EQUIVALENT		
	Thickness	1.2mm		
	Width	1000mm		
	Length	2000mm		
	Type	Steel Plate		
	Technique	Cold Rolled		
	Surface	Smooth		
	Special Use	High-Strength Steel Plate		
3	آهن تخته سیاه با ابعاد 1000x2000 x 0.9mm			
	standard	ONE OF : AISI,ASTM,DIN,JIS,CE , , OR THEIR EQUIVALENT		
	Thickness	0.9mm		
	Width	1000mm		
	Length	2000mm		
	Type	Steel Plate		
	Technique	Cold Rolled		
	Surface	Smooth		
	Special Use	High-Strength Steel Plate		
4	نل 10 انچ شش متره 222 کیلوگرام			
	Standard	ASTM,AISI,DIN,EN,GB,JIS,API,DNV,ISO,DEP,CSA,BS		
	Length	6m		
	Inner Diameter	10" (250mm)		
	Wall Thickness	6mm		
	Weight	222Kg		
	Grades	API 5L A-X100, GB/T9711 L190-L690		
5	نل فلزی 8 انچ شش متره 180 کیلوگرام			
	Standard	ASTM,AISI,DIN,EN,GB,JIS,API,DNV,ISO,DEP,CSA,BS		
	Length	6m		
	Inner Diameter	8" (203mm)		
	Wall Thickness	6mm		



	Weight	180Kg	
	Grades	API 5L A-X100, GB/T9711 L190-L690	
6	نل فلزی 6 انچ شش متره 133 کیلوگرام		
	Standard	ASTM,AISI,DIN,EN,GB,JIS,API,DNV,ISO,DEP,CSA,BS	
	Length	6m	
	Inner Diameter	6" (150mm)	
	Wall Thickness	6mm	
	Weight	133Kg	
	Grades	API 5L A-X100, GB/T9711 L190-L690	
7	نل فلزی 4 انچ شش متره 77 کیلوگرام		
	Standard	ASTM,DIN,EN,GB,JIS,API,DNV,ISO,DEP,CSA,BS	
	Length	6m	
	Inner Diameter	4" (105mm)	
	Wall thickness	5mm	
	Weight	77Kg	
	Grades	API 5L A-X100, GB/T9711 L190-L690	
8	(75mmx75mm x 7mm) Steel Angle Iron آهن زاویه		
	standard	ONE OF : AISI, ASTM, DIN, JIS, CE , OR THEIR EQUIVALENT	
	Technique	Hot rolled	
	Type	Equal Angle	
	Surface	Black	
	Width	75mm	
	High	75mm	
	Thickness	7mm	
	Length	12m	
9	(60mmx60mm x 6mm) Steel Angle Iron آهن زاویه		
	standard	ONE OF : AISI, ASTM, DIN, JIS, CE , OR THEIR EQUIVALENT	
	Technique	Hot rolled	
	Type	Equal Angle	
	Surface	Black	
	Width	60mm	
	High	60mm	
	Thickness	6mm	
	Length	6m	
10	(50mmx50mm x 5mm) Steel Angle Iron آهن زاویه		
	standard	ONE OF : AISI, ASTM, DIN, JIS, CE , OR THEIR EQUIVALENT	
	Technique	Hot rolled	
	Type	Equal Angle	
	Surface	Black	
	Width	50mm	
	High	50mm	
	Thickness	5mm	



	Length	6m	
	آهن زاويه 30mmx30mmx3mm		
	standard	ONE OF : AISI, ASTM, DIN, JIS, CE , OR THEIR EQUIVALENT	
11	Technique	Hot rolled	
	Type	Equal Angle	
	Surface	Black	
	Width	30mm	
	High	30mm	
	Thickness	3mm	
	Length	6m	
	آهن پتی 40mmx3mm		
12	Standard	ONE OF : AISI, ASTM, DIN, JIS, CE , OR THEIR EQUIVALENT	
	Width	40mm	
	Thickness	3mm	
	Weight	0.94kg/m	
	Length	6m	
	آهن پتی 30mmx3mm		
13	Standard	ONE OF : AISI, ASTM, DIN, JIS, CE , OR THEIR EQUIVALENT	
	Width	30mm	
	Thickness	3mm	
	Weight	0.7065kg/m	
	Length	6m	
	سیخ چوریدار 14 ملی متر		
14	Standard	ONE OF : AISI, ASTM, DIN, JIS, CE , OR THEIR EQUIVALENT	
	Material	Steel	
	Plating	Zinc, Zinc plated for moderate corrosion resistance.	
	Thread pitch	2.0mm	
	Item Name	Bolt Rod	
	Bolt Diameter	14mm	
	Rod Length	≥2m	
	سیخ گول 14 ملی صاف		
15	Specification	Mild Steel Plain Round Bar (MS Bar) of structural or intermediate grade conforming to ASTM specification A51 or A615 with a yield strength of not less than 275MPa (N/mm ²) i.e. 40 grade. Reinforcing steel shall be free from flaws or defects. It must be free from rust, grease, pitting, mud, loose scale, mortar or any other foreign, material or materials that may impair the quality.	
	Length	6m	
	سیخ گول 14 ملی رخدار		



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16	Standard	ASTM-A615/615M-96A GRAD 60 (420)
	Item Name	Clamp Rod
	Size Length	11700mm
	Deformed rebar	A615 G60
	Class	A3 35 GS
	Specification	High Strength Deformed Bar (HSD Bar) conforming to ASTM specification A615 or BS4461 with a yield strength of not less than 413MPa (N/mm ²) i.e 60 grade. Reinforcing steel shall be free from flaws or defects. It must be free from rust, grease, pitting, mud, loose scale, mortar or any other foreign, material or materials that may impair the quality.
17	Specification	Mild Steel Plain Round Bar (MS Bar) of structural or intermediate grade conforming to ASTM specification A51 or A615 with a yield strength of not less than 275MPa (N/mm ²) i.e 40 grade. Reinforcing steel shall be free from flaws or defects. It must be free from rust, grease, pitting, mud, loose scale, mortar or any other foreign, material or materials that may impair the quality.
	سیخ گول صاف 6 ملی بدون رخ	
	Diameter	6 mm
	Usage/Application	Construction
	Features	Rust Proof
	Technique	Hot Rolled
18	Shape	Round
	Length	6m
	اشتت 7Cm X 14mm	
	Standard	ONE OF : AISI, ASTM, DIN, JIS, CE , OR THEIR EQUIVALENT
	Material	Steel
	Plating	Zinc, Zinc plated for moderate corrosion resistance.
19	Thread pitch	2.0mm
	Item Name	Bolt Rod
	Bolt Diameter	14mm
	Rod Length	7Cm
	نت و بولت 10mmX60mm	
	Material	Steel
19	Plating	Zinc, Zinc plated for moderate corrosion resistance.
	Thread pitch	1.25mm
	Diameter	10mm
	Length	60mm
	Socket Size / Width across the flats	17mm



	Fully Threaded	YES	
	HEAD STYLE	HEX	
20	نت و بولت 6mmX130mm		
	Material	Steel	
	Plating	Zinc, Zinc plated for moderate corrosion resistance.	
	Thread pitch	1.0 mm	
	Diameter	6mm	
	Length	130mm	
	Socket Size / Width across the flats	10mm	
	Fully Threaded	YES	
	HEAD STYLE	HEX	
21	نت و بولت 8mmX40mm		
	Material	Steel	
	Plating	Zinc, Zinc plated for moderate corrosion resistance.	
	Thread pitch	1.25mm	
	Diameter	8mm	
	Length	40mm	
	Socket Size / Width across the flats	13mm	
	Fully Threaded	YES	
	HEAD STYLE	HEX	
22	نت و بولت 8mmX130mm		
	Material	Steel	
	Plating	Zinc, Zinc plated for moderate corrosion resistance.	
	Thread pitch	1.25mm	
	Diameter	8mm	
	Length	130mm	
	Socket Size / Width across the flats	13mm	
	Fully Threaded	YES	
	HEAD STYLE	HEX	
23	نت و بولت 25mmX8mm		
	Specification	AISI,ASTM,DIN,GB,JIS,CE	
	Type	M 25X8	
	Diameter	8mm	
	Length	25mm	
	OEM	YES	
24	نت و بولت 25mmX6mm		
	Specification	AISI,ASTM,DIN,GB,JIS,CE	
	Type	M 25X6	
	Diameter	6mm	
	Length	25mm	
	OEM	YES	
	نت و بولت 10mmX6mm		
	Specification	AISI,ASTM,DIN,GB,JIS,CE	



25	Type	M 25X6
	Diameter	6mm
	Length	10mm
	OEM	YES
26	نت و بولت 4X25mm	
	Specification	AISI,ASTM,DIN,GB,JIS,CE
	Type	M 25X4
	Diameter	4mm
	Length	25mm
	OEM	YES
27	نت 14 ملی معه واشر	
	Material	Steel
	Plating	Zinc plated for moderate corrosion resistance.
	Diameter	14mm
	Thread pitch	2.0mm
	Width across the flats	22mm (Min 21.67mm, Max 22.00mm)
	Height	11mm (Min 10.3mm, Max 11.0mm)
	Thread direction	Right hand
28	نت با قطر داخلی 8 ملی	
	Material	Steel
	Plating	Zinc plated for moderate corrosion resistance.
	Inner Diameter	8mm
29	سیخ ولدنگ اصلی 3 ملی	
	Package	2.5/5kgs /Inner Box and 20kg Outer Box
	Specification	3.2x350mm
	Trademark	Great Wall
	Color	Any
	Size	302mm
30	پل شلایف یا پالش 7 انچ	
	Max Operational Speed	80m/s
	RPM	6000
	Size	7"
	Type	Metal Grinding Wheel
	Dimension	230x30x22mm
	On both sides of the center part (hole), it should have two washers or metal plates	
	پل برمه 9 ملی برای فلز	
31	Size	9.0mm
	Material	High Speed Steel
	Item Weight	0.353 ounces
	Item Dimensions	0.39 x 0.39 x 6.1 inches
	Working Length	81mm
	Drill bit Diameter	9mm



	color	golden	
32	پل برمه 8 ملی اصلی برای فلز		
	Size	8mm	
	Material	High Speed Steel	
	Item Weight	30 g	
	Item Dimensions	11 x 0.8 Cm	
	Working Length	75mm	
	color	golden	
33	جالی محافظت از الودگی هوا دروازه سوئیچبورد و میتریکس		
	Specification	Technical textiles play a major and profitable role in filtration media. A wide variety of fibers, dref yarns, non-woven fabrics, multifilament and monofilament woven fabrics, and in some cases blends or combinations of more than one of the above, are used in filtration applications. Micro Hole Perforated Metal always means the hole size smaller than 1.0mm. Our Punching machine can make the smallest 0.4mm & 0.5mm, and etching micro hole can be 0.1mm and even more smaller. It can be made by 0.1mm – 1.0mm stainless steel sheet, carbon steel plate, aluminum sheet, brass sheet and other metal plate.	
	Hole Diameter (mm)	0.4mm	
	Hole Pitch (mm)	1.2mm	
	Thickness (mm)	0.4mm	
	Arrangement pattern	60°	
	Opening Area %	10%	
34	چپراست نکلی برای میتریکس سائز متوسط		
	Standard	ONE OF : AISI, ASTM, DIN, JIS, CE , OR THEIR EQUIVALENT	
	Item Name	Pin tie Hinge-Stainless Steel	
	Height	16 mm	
	Length	58mm	
	Pin Diameter	6 mm	
	OPTINAL EXTRAS	Hex moth head screws (F-HMHSS-M6x8) Socket head Cap Screws (F-SCS-M6x8-ZP)	
35	Material	Standard Steel (hinge) Standard Steel (Pin)	
	چپراست نکلی برای سوئیچبورد		
	Standard	AISI, ASTM, DIN, GB, JIS, CB	
	Item Name	Pin tie Hinge-Stainless Steel	
	Height	16-24mm	
	Length	58-65mm	
	Pin Diameter	6-9mm	
	OPTINAL EXTRAS	Hex moth head screws (F-HMHSS-M6x8) Socket head Cap Screws (F-SCS-M6x8-ZP)	
	Material	Standard Steel (hinge) Standard Steel (Pin)	



جدول تحويل دهي اقلام آهن آلات جهت ساخت ميتر بکس ، پایه فلزی ، براکت و سويچبورد در شاب توليدي

نمونه	اسم جنس	مقدار	واحد	ربع اول معياد قرار داد	ربع دوم معياد قرار داد	ربع سوم معياد قرار داد	ربع چهارم معياد قرار داد	ملاحظات
1	آهن نخته سپاه (1250X2500X1,5)mm	800.00	تخته	200.00	200.00	200.00	200.00	
2	آهن نخته سپاه 12*2000*1000 ملی متر	19,700.00	تخته	4,925.00	4,925.00	4,925.00	4,925.00	
3	آهن نخته سپاه 0.9*2000*1000 ملی متر	6,503.00	تخته	1,628.00	1,625.00	1,625.00	1,625.00	
4	نل 10 انچ شش متره 225 کیلوگرام	50.00	خاده	13.00	13.00	12.00	12.00	
5	نل 8 انچ شش متره 180 کیلوگرام	2,650.00	خاده	663.00	663.00	662.00	662.00	
6	نل 6 انچ شش متره 135 کیلوگرام	1,950.00	خاده	175.00	0.00	488.00	487.00	
7	نل 4 انچ شش متره 75 کیلوگرام	175.00	خاده	9,561.00	9,558.00	9,558.00	9,558.00	
8	آهن زاویه 75*75 ملی متر	38,235.00	متر	1,299.00	1,299.00	1,299.00	1,299.00	
9	آهن زاویه 60*60 ملی متر	5,196.00	متر	495.00	495.00	495.00	495.00	
10	آهن زاویه 50*50 ملی متر	1,980.00	متر	13,066.00	13,063.00	13,063.00	13,063.00	
11	آهن زاویه 30*30 ملی متر	52,255.00	متر	8,050.00	8,050.00	8,050.00	8,050.00	
12	آهن پتی 40*3 ملی متر	32,200.00	متر	250.00	250.00	250.00	250.00	
13	آهن پتی 30*3 ملی متر برای بینچه	1,000.00	متر	10,140.00	10,140.00	10,140.00	10,140.00	
14	سیخ چوبندار 14 ملی	40,560.00	متر	1,015.00	1,014.00	1,014.00	1,014.00	
15	سیخ گول صاف 14 ملی	4,057.00	متر	1,380.00	1,380.00	1,380.00	1,380.00	
16	سیخ گول رخدار 14 ملی	5,520.00	متر	400.00	400.00	400.00	400.00	
17	سیخ صاف 8 ملی برای قلفک	1,600.00	متر	100.00	0.00	0.00	0.00	
18	شنت 14mm*7cm	100.00	عدد	600.00	600.00	0.00	0.00	
19	نت و بولت 10x60mm	1,200.00	عدد	430.00	430.00	0.00	0.00	
20	نت و بولت 6x130mm	860.00	عدد	2,625.00	2,625.00	2,625.00	2,625.00	
21	نت و بولت 8x40mm	10,500.00	عدد	740.00	0.00	0.00	0.00	
22	نت و بولت 8x130mm	740.00	عدد	5,000.00	5,000.00	5,000.00	5,000.00	
23	نت و بولت 8*25	20,000.00	عدد	39,750.00	39,750.00	39,750.00	39,750.00	
24	نت و بولت 6*25	159,000.00	عدد	19,500.00	19,500.00	19,500.00	19,500.00	
25	نت و بولت 6*10	78,000.00	عدد	10,000.00	10,000.00	10,000.00	10,000.00	
26	نت و بولت 3*25	40,000.00	عدد	40,950.00	40,950.00	40,950.00	40,950.00	
27	نت 14 ملی	163,800.00	عدد	800.00	800.00	0.00	0.00	
28	نت با قطر داخلی 8 ملی	1,600.00	عدد	82,750.00	82,750.00	82,750.00	82,750.00	
29	سیخ ولدنگ 3 ملی	331,000.00	عدد	1,000.00	1,000.00	0.00	0.00	
30	پل شلايف 7 انچ	1,000.00	عدد	1,000.00	1,000.00	0.00	0.00	
31	پل برمه 9 ملی	1,000.00	عدد	1,000.00	1,000.00	0.00	0.00	
32	پل برمه 8 ملی	1,000.00	عدد	624.00	624.00	0.00	0.00	
33	جالی محافظ از الودگی هوا	624.00	متر مربع	800.00	800.00	0.00	0.00	
34	چپراس نکلی معه بولت برای سويچبورد	800.00	جوره	10,000.00	10,000.00	10,000.00	10,000.00	
35	چپراس نکلی معه بولت برای ميترکس	40,000.00	جوره					

نوت : شرکت قرار دادی نظر به توانایی خویش میتواند تمام اقلام مندرجه جدول را در ربع اول تحويل نماید

تاييدي مرجع نیاز مند !

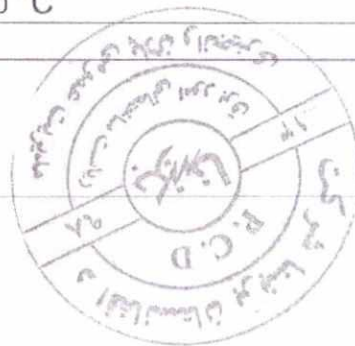
لایحه چهارم

۰۵ - ۳۳۶۰

د افغانستان برېښنا شرکت
P.C.D
برېښنا
ریاست ساختمانی امور برق
مدیریت عمومی پلان و انجنیری

Sr. No	مشخصات تخنیکي لات پنجم تجهیزات برقی سال 1403 Technical Specifications of Electrical Equipments		توضیح مطابقت	
			ندارد	دارد
1	مین سویچ 1000 A			
	MCCB: rated current	1000 A		
	Rated continues current	1000 A		
	Trip unit	1000 A		
	Ultimate breaking capacity	>50 KA		
	Short circuit current	28.1 KA		
	Rated operation voltage	415- 690 V		
	Frequency	50Hz		
	Rated insulating voltage	700 V		
	Temperature rang	-5 to +40 °C		
	Rated impulse voltage	8 KV		
	Pole quantity	3 Pole		
	Standard	IEC 60947.2		
	Extension Bus Bar Set	6 pcs/set		
2	مین سویچ 630 A			
	TYPE	INDOOR		
	MCCB: rated current	630 A		
	Rated continues current	630 A		
	Trip unit	630 A		
	Ultimate breaking capacity	>50 KA		
	Short circuit current	14.2 KA		
	Rated operation voltage	415- 690 V		
	Frequency	50-60 Hz		
	Rated insulating voltage	700 V		
	Temperature rang	-5 to +40 °C		
	Rated impulse voltage	8 KV		
	Pole quantity	3 Pole		
	Standard	IEC 60947.2		
	Extension Bus Bar Set	6 pcs/set		
3	مین سویچ 400 A			
	Type	indoor		
	MCCB: rated current	400 A		
	Rated continues current	400 A		
	Trip unit	400 A		
	Ultimate breaking capacity	>50 KA		
	Short circuit current	8.9 kA		
	Rated operation voltage	415- 690 V		
	Frequency	50Hz		
	Rated insulating voltage	700 V		
	Temperature rang	-5 to +40 °C		
	Rated impulse voltage	8 KV		

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	Pole quantity	3 pole
	Standard	IEC 60947.2
	Extension Bus Bar Set	6 pcs/set
4	مین سویچ 250 A	
	Type	indoor
	MCCB: rated current	250 A
	Rated continues current	250 A
	Trip unit	250 A
	Ultimate breaking capacity	>35 KA
	Short circuit current	5.7 KA
	Rated operation voltage	415- 690 V
	Frequency	50 Hz
	Rated insulating voltage	700 V
	Temperature rang	-5 to +40 °C
	Rated impulse voltage	6 KV
	Pole quantity	3 pole
	Standard	IEC 60947.2
	Extension Bus Bar Set	6 pcs/set
5	مین سویچ 160 A	
	Type	indoor
	MCCB: rated current	160 A
	Rated continues current	160 A
	Trip unit	160 A
	Ultimate breaking capacity	>35 KA
	Short circuit current	3.65 KA
	Rated operation voltage	415- 690 V
	Frequency	50 Hz
	Rated insulating voltage	700 V
	Temperature rang	-5 to +40 °C
	Rated impulse voltage	6 KV
	Pole quantity	3 pole
	Standard	IEC 60947.2
	Extension Bus Bar Set	6 pcs/set
6	فیوز کاردکی معه تخت مکمل 1000A/1000A	
	Standard	IEC-60269-1:2005
	Type	Low Voltage Knife Fuse
	Fuse Base	Fiber Insulation with Galvanic ally silver Plated Contacts
	Current Rating	1000A
	Base Current Rating	1000A
	Voltage Rating	0.4kV
	Breaking Capacity	120kA
	OEM	YES
	فیوز کارد کی معه تخت آن 630/630A	

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7	Standard	IEC-60269-1:2005
	Type	Low Voltage Knife Fuse
	Fuse Base	Fiber Insulation with Galvanic ally silver Plated Contacts
	Current Rating	630A
	Base Current Rating	630A
	Voltage Rating	0.4kV
	Breaking Capacity	120kA
	OEM	YES
8	فیوز کارڈ کی معہ تخت آن 400/400A	
	Standard	IEC-60269-1:2005
	Type	Low Voltage Knife Fuse
	Fuse Base	Fiber Insulation with Galvanic ally silver Plated Contacts
	Current Rating	400A
	Base Current Rating	400A
	Voltage Rating	0.4kV
	Breaking Capacity	120kA
9	فیوز کارڈ کی معہ تخت آن 250/250A	
	Standard	IEC-60269-1:2005
	Type	Low Voltage Knife Fuse
	Fuse Base	Fiber Insulation with Galvanic ally silver Plated Contacts
	Current Rating	250A
	Base Current Rating	250A
	Voltage Rating	0.4kV
	Breaking Capacity	120kA
10	فیوز کارڈ کی معہ تخت مکمل آن 160A/160A	
	Standard	IEC-60269-1:2005
	Type	Low Voltage Knife Fuse
	Fuse Base	Fiber Insulation with Galvanic ally silver Plated Contacts
	Current Rating	160A
	Base Current Rating	160A
	Voltage Rating	0.4kV
	Breaking Capacity	120kA
11	فیوز کارڈ کی 100A/160A	
	Standard	IEC 60269-1:2005
	Dimension Standard	DIN 43620
	Rated current	100A
	Base Rated Current	160A

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	Voltage	0.4kV	
	Breaking Capacity	100kA	
	Type	Low voltage knife Fuse	
	Fuse Bases	Fiber insulation with Galvanic ally silver Plated Contacts	
	OEM	YES	
12	فیوز اتومات 25A		
	Type	MCB	
	Rated Voltage	240V (AC)	
	Rated Current	25A	
	Number of Poles	1	
	Cross Sectional Area	6mm ²	
	Rated Breaking Capacity	10kA	
	Insulation Voltage	500V	
	Rated Frequency	50HZ	
	Impulse Power Frequency	2kV (50HZ)	
	Housing Material	Polybutyne Terephthalate in RAL 7035 Grey Color	
	Degree of Protection	IP20 as per IS13947/IEC 60529	
13	ترانسفارمر جریان 1000/5A		
	Standard	IEC 60044-1/ 61869-2	
	Rated Primary Current	1000A	
	Rated Secondary Current	1or 5A	
	Rated Operational Voltage (Un)	720V	
	Accuracy Class	Metering: 0.2, 0.2s, 0.5, 0.5s, 1,3; Protection 5P, 10P	
	Instrument Security Factor (Fs)	5	
	Burden	From 1 to 30 VA	
	Rated Frequency	50Hz (on demand 400Hz)	
	Ambient Temperature	-20/75°C	
	Storage Temperature	-50/80°C	
	Operating Humidity	Up to 95% Relative Humidity	
	Rated Thermal Continuous Current	1.2*In	
	Rated Short Time Thermal Current	60*In / 1 Sec. – 100*In / 1Sec.	
	Rated Dynamic Current(Idyn)	2.5*Ith / 1Sec	
	Rated Power Frequency withstand Voltage	3Kv eff.(50Hz)/1min.	
	Thermal Class of Insulation	E (120 deg.C max.)	
	casing	Non-flammable, Self-Extinguishing, Glass reinforced PA6	
	Degree Of Protection	IP20	
14	ترانسفارمر جریان 630/5A		
	Standard	IEC 60044-1/ 61869-2	
	Rated Primary Current	630A	
	Rated Secondary Current	1or 5A	

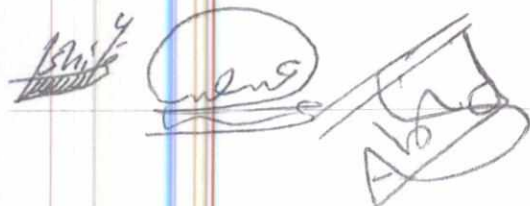


	Rated Operational Voltage (Un)	720V
	Accuracy Class	Metering; 0.2, 0.2s, 0.5, 0.5s, 1,3; Protection 5P, 10P
	Instrument Security Factor (Fs)	5
	Burden	From 1 to 30 VA
	Rated Frequency	50Hz (on demand 400Hz)
	Ambient Temperature	-20/75°C
	Storage Temperature	-50/80°C
	Operating Humidity	Up to 95% Relative Humidity
	Rated Thermal Continuous Current	1.2*In
	Rated Short Time Thermal Current	60*In / 1 Sec. – 100*In / 1Sec.
	Rated Dynamic Current(Idyn)	2.5*Ith / 1Sec
	Rated Power Frequency withstand Voltage	3Kv eff.(50Hz)/1min.
	Thermal Class of Insulation	E (120 deg.C max.)
	casing	Non-flammable, Self-Extinguishing, Glass reinforced PA6
	Degree Of Protection	IP20
15	ترانسفار مرجریان 400/5A	
	Standard	IEC 60044-1/ 61869-2
	Rated Primary Current	400A
	Rated Secondary Current	1or 5A
	Rated Operational Voltage (Un)	720V
	Accuracy Class	Metering; 0.2, 0.2s, 0.5, 0.5s, 1,3; Protection 5P, 10P
	Instrument Security Factor (Fs)	5
	Burden	From 1 to 30 VA
	Rated Frequency	50Hz (on demand 400Hz)
	Ambient Temperature	-20/75°C
	Storage Temperature	-50/80°C
	Operating Humidity	Up to 95% Relative Humidity
	Rated Thermal Continuous Current	1.2*In
	Rated Short Time Thermal Current	60*In / 1 Sec. – 100*In / 1Sec.
	Rated Dynamic Current(Idyn)	2.5*Ith / 1Sec
16	Rated Power Frequency withstand Voltage	3Kv eff.(50Hz)/1min.
	Thermal Class of Insulation	E (120 deg.C max.)
	casing	Non-flammable, Self-Extinguishing, Glass reinforced PA6
	Degree Of Protection	IP20
	ترانسفار مرجریان 250/5A	
	Standard	IEC 60044-1/ 61869-2
	Rated Primary Current	250A
	Rated Secondary Current	1or 5A
	Rated Operational Voltage (Un)	720V





	Accuracy Class	Metering; 0.2, 0.2s, 0.5, 0.5s, 1.3; Protection 5P, 10P
	Instrument Security Factor (Fs)	5
	Burden	From 1 to 30 VA
	Rated Frequency	50Hz (on demand 400Hz)
	Ambient Temperature	-20/75°C
	Storage Temperature	-50/80°C
	Operating Humidity	Up to 95% Relative Humidity
	Rated Thermal Continuous Current	1.2*In
	Rated Short Time Thermal Current	60*In / 1 Sec. – 100*In / 1Sec.
	Rated Dynamic Current(Idyn)	2.5*Ith / 1Sec
	Rated Power Frequency withstand Voltage	3Kv eff.(50Hz)/1min.
	Thermal Class of Insulation	E (120 deg.C max.)
	casing	Non-flammable, Self-Extinguishing, Glass reinforced PA6
	Degree Of Protection	IP20
17	ترانسفارمر جریان 160/5A	
	Standard	IEC 60044-1/ 61869-2
	Rated Primary Current	160A
	Rated Secondary Current	1or 5A
	Rated Operational Voltage (Un)	720V
	Accuracy Class	Metering; 0.2, 0.2s, 0.5, 0.5s, 1.3; Protection 5P, 10P
	Instrument Security Factor (Fs)	5
	Burden	From 1 to 30 VA
	Rated Frequency	50Hz (on demand 400Hz)
	Ambient Temperature	-20/75°C
	Storage Temperature	-50/80°C
	Operating Humidity	Up to 95% Relative Humidity
	Rated Thermal Continuous Current	1.2*In
	Rated Short Time Thermal Current	60*In / 1 Sec. – 100*In / 1Sec.
	Rated Dynamic Current(Idyn)	2.5*Ith / 1Sec
18	Rated Power Frequency withstand Voltage	3Kv eff.(50Hz)/1min.
	Thermal Class of Insulation	E (120 deg.C max.)
	casing	Non-flammable, Self-Extinguishing, Glass reinforced PA6
	Degree Of Protection	IP20
	مولتی متر سه فاز دیجیتال برای سوییچبورد	
	Display	Digital Back Lit LCD
	Voltage	400VAC 0.8%, 700 VAC 1.0%
	Current	400A AC
	Frequency Counter	50 Hz 2.0%
	Battery	9 V





	Standard	IEC 1010-1 Compliant
	Measures AC current	400A
	Measures AC voltage	400V
	Resistance Measurement	400Ω
	Dimensions	96 x 96 mm
	Measurement range	Ampere meter 0...9999 A Voltmeter L1, L2, L3 0...500 V Frequency meter 30...70 Hz
	Accuracy	Ampere meter $\pm 1 \% + 2 d$ Voltmeter $\pm 1 \% + 2 d$ Frequency meter $\pm 0.2 \% + 2 d$ CT ratios: 1...2000
	Screen	Ampere meter 3 x 4 digits Voltmeter 3 digits Frequency meter 3 digits
19	زنگنه گروپ سه رنگ	
	Operating voltage	12VDC
	Operating current	120mA
	Flashes	≤ 65 times/min
	Life time	≥ 200 hours (standard power work continuous)
	Colors	Red, Yellow, Blue
20	سیم یک لینه $6mm^2$ مسی	
	Standard	IEC 60228
	Insulation Material	PVC
	Conductor Material	Copper
	Voltage	300-500V
	Cross Sectional Area	6mm ²
	Core	Single
	Color	Red, Yellow, Blue, Black
	OEM	YES
	bundle	100m
	Physical state	flexible
	It should be in the form of 100 meter bundles	
21	سیم فکسولی $1x1.5mm^2$ برای سویچپورد	
	Standard	One Of : IEC60228, DIN VDE 0295, EN60228 , OR THEIR EQUIVALENT

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	Conductors	Flexible Class 5 Conductors
	Insulation Material	PVC
	Conductor Material	Copper
	Cross Sectional Area	(1x1.5)mm ²
	Voltage rating	600/1000V
	Withstand Temperature	90-105 °C
	Color	Red, Yellow, Blue , Black
	OEM	YES
It should be in the form of 100 meter bundles		
22	بسیار مسی 10x50mm برای سویچبورد	
	Specification	IEC , BS , UL , VDE , JIS
	Material	Copper
	Width	50mm
	Thickness	10mm
	OEM	YES
	Rod Length	4m
23	بسیار مسی 10x40mm برای سویچبورد	
	Specification	IEC , BS , UL , VDE , JIS
	Material	Copper
	Width	40mm
	Thickness	10mm
	OEM	YES
	Rod Length	4m
24	بسیار مسی 10x30mm برای سویچبورد	
	Specification	IEC , BS , UL , VDE , JIS
	Material	Copper
	Width	30mm
	Thickness	10mm
	OEM	YES
	Rod Length	4m
25	بسیار مسی 10x20mm برای سویچبورد	
	Specification	IEC , BS , UL , VDE , JIS
	Material	Copper
	Width	20mm
	Thickness	10mm
	OEM	YES
	Rod Length	4m
26	بسیار مسی 2x20mm برای میتر بکس	
	Specification	IEC , BS , UL , VDE , JIS
	Material	Copper
	Width	20mm
	Thickness	2mm
	OEM	YES
	Rod Length	4m



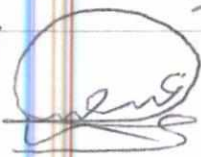
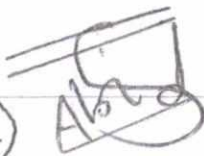


27	پوش بسیار 10x55mm برای سوییچبورد	
	Material	Silicon Rubber
	Color	Red, Yellow, Blue
	Withstand Temperature	125 OC
	Width	55mm
	Thickness	10mm
28	پوش بسیار 10x45mm برای سوییچبورد	
	Material	Silicon Rubber
	Color	Red, Yellow, Blue
	Withstand Temperature	125 OC
	Width	45mm
	Thickness	10mm
29	پوش بسیار 10x35mm برای سوییچبورد	
	Material	Silicon Rubber
	Color	Red, Yellow, Blue
	Withstand Temperature	125 OC
	Width	35mm
	Thickness	10mm
30	پوش ناسوز 8 میلی	
	Specification	One of : IEC,BS,UL,VDE,JIS Or their equivalent
	Diameter	8mm
	Length	1 m
	OEM	YES
	material	Fireproof fibers, silicone
	Color	Light cream with orange lines
31	سلینتر بسیارگیر برای سوییچبورد سایز کلان معه بولت	
	Standard	IEC,BS,UL,VDE,JIS
	Type	SM-76
	Product Name	Bus-Bar Insulator
	Threaded Diameter	45mm
	Heights	70mm
	Rated voltage	240/380V
	OEM	YES
32	سلینتر بسیارگیر برای میتر بکس سایز خورد معه بولت واسپرنگ واشر	
	standards	One of : IEC,BS,UL,VDE,JIS Or their equivalent
	Type	SM-25-M6
	Threaded Diameter	6mm
	Height	25mm
	Rated Voltage	240/380v
	OEM	YES
	Color	Red
	The cover of the net and its bolt should be galvanized	





33	بطره فیوز گیر برای فیوزهای اتومات	
	Specification	One of : IEC,BS,UL,VDE,JIS Or their equivalent
	Item Name	Steel DIN Rail
	Size	35mm
	Hole Dimensions	6.3x18mm
	Central Distance Between Holes	25mm
	Piece Length	1m
	OEM	YES
34	چین کلیت 40A برای میتریکس	
	Material	Fiber
	Specification	One of : IEC,BS,UL,VDE,JIS Or their equivalent
	Rated Voltage	400V
	Rated Current	40A to 60A
	Wire Size	6mm ²
	Number of Poles	12
	Width	25mm
	Height	20mm
35	چینل پلاستیکی 10x40mm جالی دار برای سویچبورد	
	Material	PVC
	Width	40mm
	Thickness	10mm
	Operating Temperature	-25-50 °C -13-122 °F
	Slot Type	Open
	Mounting holes	Single row
	Color	Grey
36	بست پلاستیکی	
	Size	Universal
	Material	Plastic
	Color	White
	Usage	Clipping of flexible wires together
37	گیرا برای کیبل های 2x4mm ² میتریکس (gland cable-pg)	
	Material	Fiber / rubber
	Model	Pg7
	Cable range	3-6.5mm
	Thead O.D L2	12.5mm
	Thead Length L1	9mm
	Spanner Size A&E	18/16mm
	Color	Cream
38	گیرا برای کیبل های عبوری 4x16mm ² میتریکس (gland cable-pg)	
	Material	Fiber / rubber
	Model	Pg21



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39	Cable range	13-18mm
	Thead O.D L2	28.3mm
	Thead Length L1	12mm
	Spanner Size A&E	35/33mm
	Color	Cream
	واشر محافظت از آب برای سویچبورد و میتر بکس	
	Material	EPDM/PVC/Silicon/TPV
39	Size	available
	Features	weather resistance, anti-aging, noise proof, easily installed
	Usage	For switchboard Meter boxes
	Hardness	25-90 shore A
	Color	black



جدول تحویل دې اقلام تجهیزات برقی جهت وېونګ میتر بکس و سویچبورد در شاپ تولیدی

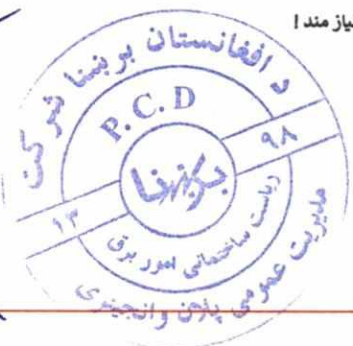
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1	مین سویچ 1000 امپیر	10.00	عدد	5.00	5.00	5.00	5.00	
2	مین سویچ 630 امپیر	110.00	عدد	28.00	28.00	27.00	27.00	
3	مین سویچ 400 امپیر	175.00	عدد	46.00	43.00	43.00	43.00	
4	مین سویچ 250 امپیر	85.00	عدد	22.00	21.00	21.00	21.00	
5	مین سویچ 160 امپیر	20.00	عدد	5.00	10.00	10.00	10.00	
6	فیوز معه تخت مکمل 1000A/1000A	150.00	عدد	150.00	0.00	0.00	0.00	
7	فیوز معه تخت مکمل 630A/630A	1,590.00	عدد	398.00	398.00	397.00	397.00	
8	فیوز معه تخت مکمل 400A/400A	2,010.00	عدد	503.00	503.00	502.00	502.00	
9	فیوز معه تخت مکمل 250A/250A	1,270.00	عدد	318.00	318.00	317.00	317.00	
10	فیوز معه تخت مکمل 160A/160A	180.00	عدد	90.00	90.00	0.00	0.00	
11	فیوز کارڈی 100/160A	60,000.00	عدد	15,000.00	15,000.00	15,000.00	15,000.00	
12	فیوز اتومات 25A	117,000.00	عدد	29,250.00	29,250.00	29,250.00	29,250.00	
13	ترانسفارمر جریان 1000/5 امپیر	30.00	عدد	30.00	0.00	0.00	0.00	
14	ترانسفارمر جریان 630/5 امپیر	330.00	عدد	330.00	0.00	0.00	0.00	
15	ترانسفارمر جریان 400/5 امپیر	525.00	عدد	525.00	0.00	0.00	0.00	
16	ترانسفارمر جریان 250/5 امپیر	255.00	عدد	255.00	0.00	0.00	0.00	
17	ترانسفارمر جریان 160/5 امپیر	60.00	عدد	60.00	0.00	0.00	0.00	
18	مولتی متر سه فاز دیجیتالی	400.00	عدد	400.00	0.00	0.00	0.00	
19	زکنال گروپ سه رنگ	1,200.00	عدد	1,200.00	0.00	0.00	0.00	
20	سیم یک لینه 2 mm 6mm مسی	301,500.00	متر	75,375.00	75,375.00	75,375.00	75,375.00	
21	سیم فکسولی 2 mm (1x1.5) مسی	8,000.00	متر	2,000.00	2,000.00	2,000.00	2,000.00	
22	بسیار مسی (10x50)mm	56.50	متر	56.50	0.00	0.00	0.00	
23	بسیار مسی (10x40)mm	595.00	متر	595.00	0.00	0.00	0.00	
24	بسیار مسی (10x30)mm	1,207.50	متر	1,207.50	0.00	0.00	0.00	
25	بسیار مسی (10x20)mm	210.00	متر	210.00	0.00	0.00	0.00	
26	بسیار مسی (2x20)mm	1,980.00	متر	1,980.00	0.00	0.00	0.00	
27	پوش بسیار مسی (10x55)mm	51.50	متر	51.50	0.00	0.00	0.00	
28	پوش بسیار مسی (10x45)mm	540.00	متر	540.00	0.00	0.00	0.00	
29	پوش بسیار مسی (10x35)mm	1,277.50	متر	1,277.50	0.00	0.00	0.00	
30	پوش ناسوز 8 ملی	70,200.00	متر	17,550.00	17,550.00	17,550.00	17,550.00	
31	سلنتر بسیار گیر برای سویچبورد	800.00	عدد	400.00	400.00	0.00	0.00	
32	سلنتر بسیار گیر برای میتر بکس	39,000.00	عدد	9,750.00	9,750.00	9,750.00	9,750.00	
33	بطره فیوز گیر فیوز اتومات	4,300.00	متر	2,150.00	2,150.00	0.00	0.00	
34	چین کلکت	117,000.00	چوره	29,250.00	29,250.00	29,250.00	29,250.00	
35	چینل پلاستیکی (10x40)mm جالی دار	600.00	متر	300.00	300.00	0.00	0.00	
36	پست پلاستیکی	4,000.00	عدد	2,000.00	2,000.00	0.00	0.00	
37	گیرا برای کیبل 2*4 ملی	120,000.00	عدد	30,000.00	30,000.00	30,000.00	30,000.00	
38	گیرا برای کیبل های عبوری 16 ملی	20,000.00	عدد	5,000.00	5,000.00	5,000.00	5,000.00	
39	واشر برای محافظت از آب برای دروازه صندوق و سویچبورد	57,285.00	متر	14,322.00	14,321.00	14,321.00	14,321.00	

نوت : شرکت قرار دادی نظر به توانایی خویش میتواند تمام اقلام مندرجه جدول را در ربع اول تحویل نماید

تاییدی مرجع نیاز مند ا









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Technical Specs for Hod kKhil Pole Factory

رات ششم

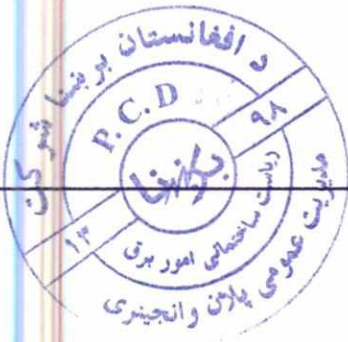
No	Name of Goods	Pohto	Description	Qty	Remarks
1	Nut, Bults washer and pin for Molds		Size of Nut : 30mm Diameter of Bolt : 18mm Length of Bolt : 145 mm Diameter of Pen : 17mm Length of Pen : 70mm Thickness of Washer: 7mm Outside of Diameter: 45mm Inside Diameter of Washer: 20mm	3000 Set	
2	Motor with Gearbox		Rated Voltage : 380/220 v Rated Power : 3kw Motor Speed : 2850 rpm Crane Travelling Speed: 60m/min Braking Torque: 5.5 N-M	4 Psc	
3	Motor with Gearbox		Rated Voltage : 380/220 v Rated Power : 1.5kw Motor Speed : 1450 rpm Trolley Travelling Speed: 20m/min Braking Torque: 5.5 N-M	2 Psc	
4	Over Head Traveling Crane		Hoist Capacity: 10,000 Kgr Lifting High: 9m Lifting Speed: 8 m/mie Rated Voltage : 380/220 v Hoist Motor Power : 19.6 kw Rope Diameter: 14mm Braking Torque: 145 N-M	2 Psc	
	Spare Part	Hoist Tools (Irin chain, Butterfly Clasps< Lifting Hooks and O ring)		Capacity: 10Ton	8 Psc
5	Pneumatic Wrench		Type Bolt: M30 Max Torque: 2150N.M Free load Rotation: 4000-5000 rpm	12 Psc	
	Spare Part	Socket wrench Special Aired Pipe 120m	Type: M30 as per Pneumatic wrench required	24 Psc 120m	
6	Automatic Tensioning Machin		Rated Voltage : 380/220 v Rated Motor Power : 3kw Rated Oil Pressure: 100Mpa Nominal Tension Force: 2000 KN	3Pcs	
	Spare Part	Baro meter or Presser Mater	Capacity: 100 Mpa	6 Pcs	
7	PC Wire Heading Machin		Rated Voltage : 380/220 v Rated Motor Power : 3kw Rated Oil Pressure: 100Mpa Nominal Heading Force: 1000 KN Deading Diameter: 7mm and 9mm Heading Object: Prestressing Wire	3 Pcs	
	Spare Part	Baro meter or Presser Mater	Capacity: 100 Mpa	6 Pcs	
		Clips	For PC Wire Heading Machin	100 Set	
		Button Mold	For PC Wire Heading Machin	100 Pcs	
	Cut of Machine		Rated Voltage : 220 v Rated Motor Power : 3kw Wheel Size: 14inch Applicable: Steel bar, Angle steel, Channel steel, Round steel Round Steel cutting Capacity: Q50mm Adjustable splint angle	2 Pcs	



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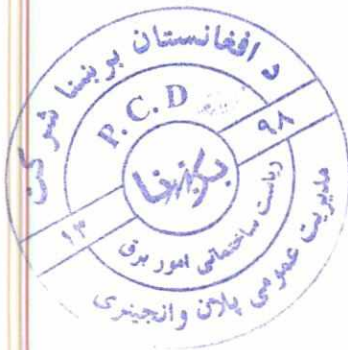
	Spare Part	Original related Borsh	For Cut of Machin	10 Pcs	
9	Steel Cutting Grinder		Rated Voltage : 220 v Wheel Size: 9inch Applicable: Steel bar, Angle steel, Channel steel, Round steel Round Steel cutting Capacity: Q18mm	2 Pcs	
	Spare Part	Original related Borsch	For steel cutting Grinder	10 Pcs	
10	Drilling Machin		Rated Voltage : 380/220 v Rated Motor Power : 3kw Max Drilling Capacity: 25mm Max Face milling Capacity: 63mm Table size: 700x180 mm Spindle speed: Variable Applicable: Steel and metal	1 Pcs	
	Spare part	all type spindle	Steel and Metal spindle For Drailing Machin	2 Set	
11	lifting Scale		Materials: Steel Lifting Capacity: 10,000 kgr Length: 8m	2 Pcs	
	Spare Parts	Hoist Tools 5 ton(Irin chain, Butterfly Clasps, Lifting Hooks and O ring)	for lifting Scale	8 Set	
12	Electric Heater with Flange		Rated Voltage : 380 v Rated Power : 4kw Working Temperture: 171 c Working life: 10 years Warranty period: 1 year Water Pressure: 1Mpa	100 Pcs	







No.	Machine Name	Description			Qty	Remarks	Tension Device	
		L/m	T.D/mm	B.D/mm				
13	Concrete pole mold 	9	315	450	2	Materials: Steel Longitudinal Plat Thickness: 12mm	For mold length 9	as per drawn from 30mm plat
14		10	405	555	2	Materials: Steel Longitudinal Plat Thickness: 12mm	For mold length 10	
15		18	315	585	1	Materials: Steel Longitudinal Plat Thickness: 16mm	For mold length 18	
			405	675	1	Materials: Steel Longitudinal Plat Thickness: 16mm	For mold length 18	
16		21	450	675	2	Materials: Steel Longitudinal Plat Thickness: 16mm	For mold length 21	






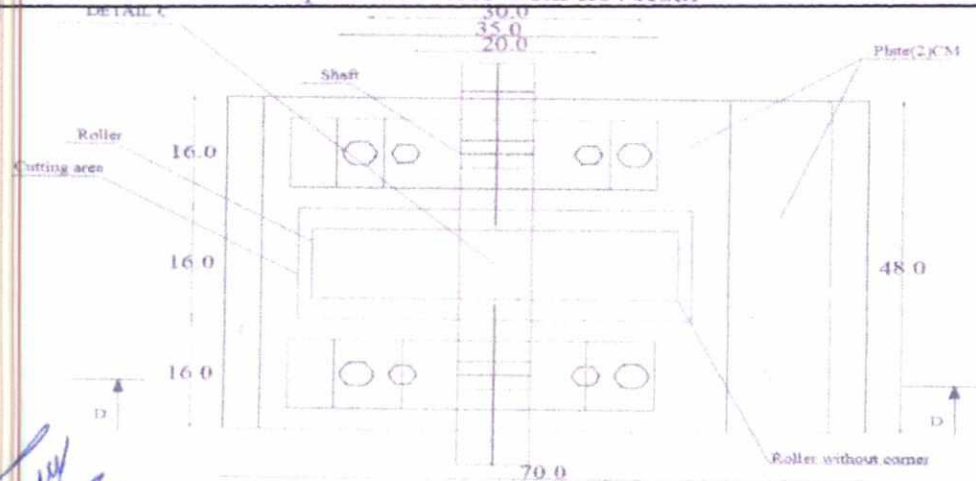


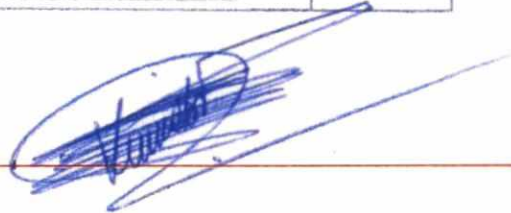
Technical Specs for Hod kKhil Pole Factory

No	Name of Goods	Pohto	Description	Qty	Remarks
17	Electrical Steam Boiler		Rated Evaporation Capacity: 0.5t/h	2 Pcs	
			Rated Steam Pressure: 1 Mpa		
			Rated Steam Temperature: 184 c		
			Rated feed-water temperature: 20c		
			Rated Voltage : 380/220v		
	Spare Parts	Electrical Heater	for Steam Boiler	100 Pcs	



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No	Technical specifications	تاییدی مطابقت و یا عدم مطابقت
18	<p data-bbox="633 257 941 302">ماشین کش سیم های فولادی</p> <div data-bbox="243 470 568 560"> <p>Hydraulic Prestressed Machine</p> </div> <div data-bbox="633 324 1218 694"> <p>Name: PC Wire Tensioning Machine (Hydraulic Pump with prestressing Juke)</p> <p>Rated Voltage : 380/220 v</p> <p>Rated Motor Power : 3kw</p> <p>Rated Oil Pressure: 60 Mpa</p> <p>Nominal Tension Force: 1000 KN</p> <p>Tensioning Diameter: 7mm and 9mm</p> <p>Tensioning Object: Prestressing Wire</p> </div>	
19	<p data-bbox="698 705 876 750">ماشین تست پایه</p> <div data-bbox="341 795 633 873"> <p>Pole Load Deflection Tester</p> </div> <div data-bbox="235 884 641 1142">  </div> <div data-bbox="714 840 1201 1086"> <p>Able to Measure Load Deflection and Displacement on screen</p> <p>Max Test Load : 20KN - 200 KN</p> <p>Precision Scale : 0.5%</p> <p>Display Screen: Metrix LCD Screen</p> <p>Force Sensor accuracy: 0.01KN</p> <p>Displacement sensor accuracy: 0.01mm</p> </div>	
20	<p data-bbox="698 1153 876 1198">ماشین دوران پایه</p> <p data-bbox="535 1220 941 1265">plan of roller with neversal</p> <div data-bbox="243 1254 1218 1736">  </div> <p data-bbox="617 1747 1136 1792">Note: All dimension in centimeters</p>	

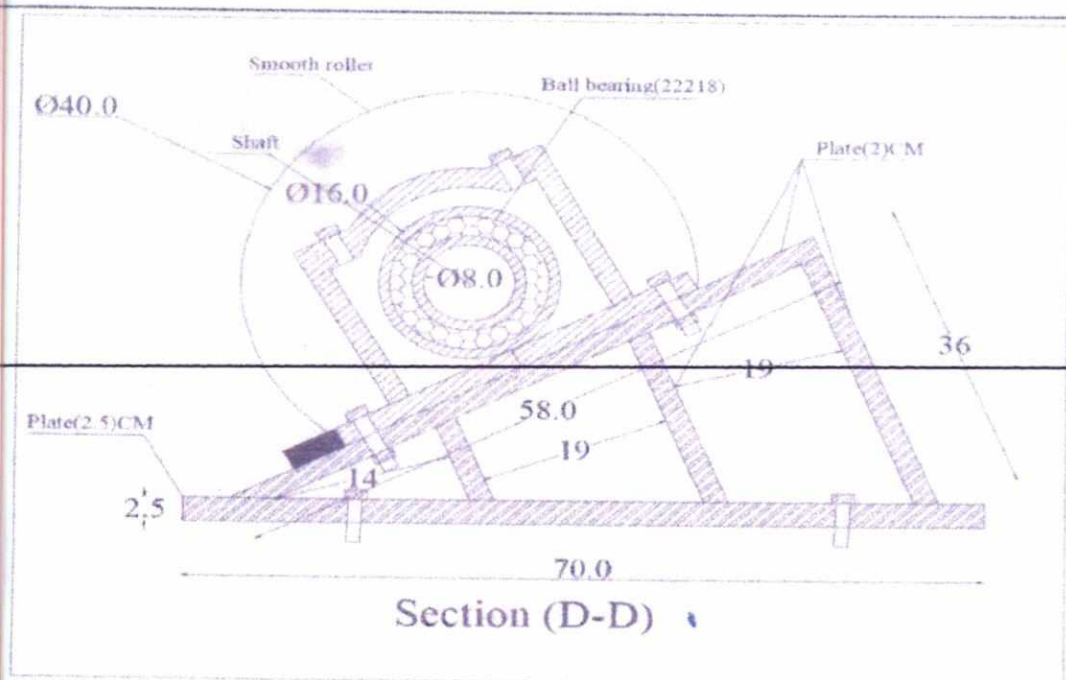
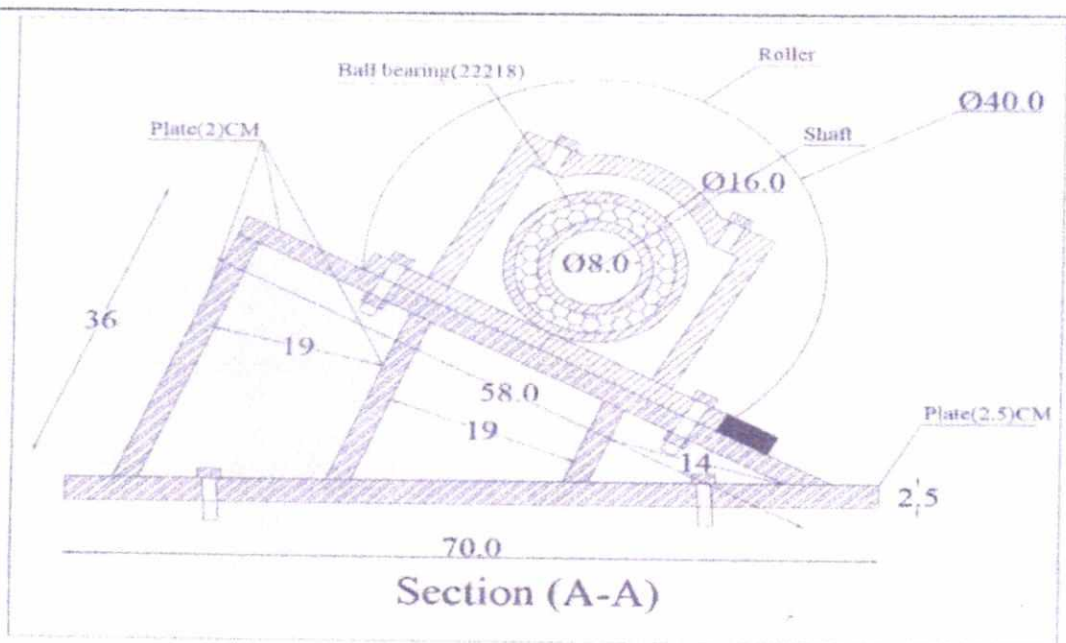
Technical drawing showing the details of a C-section beam. The drawing includes dimensions for the beam's width (110 mm), height (200 mm), and various segments (13.0, 12.0, 7.5, 10.0, 10.5, 40.0, 10.0, 9.0, 13.0). It also shows components like a Ball bearing (22218), a Roller, a Shaft, and a Smooth roller.

[illegible]

Motor, 55 kW



A blue ink scribble or signature on a lined background. The scribble consists of several overlapping, curved lines that form a somewhat elongated, oval shape. Inside this shape, there are some vertical lines and a small, dark, rectangular mark. The overall appearance is that of a quick, gestural drawing or signature.



[Handwritten signature]

21

پل چکش سنگ شکن 32 انچ

پل چکش سنگ شکن 32 انچ جوړه یی دارای دندان‌ه‌های نری و مادگی: مشخصات نری: طول 32 انچ عرض: 30 انچ - ضخامت 11 سانتی متر - ضخامت دندان‌ه پایینی 22 ملی - ضخامت بالایی دندان‌ه 10 ملی متر-----مشخصات مادگی: طول 33 انچ عرض: 26 انچ - ضخامت 11 سانتی متر - ضخامت دندان‌ه پایینی 22 ملی - ضخامت بالایی دندان‌ه 10 ملی متر



22

لورک سایز خورد 25 سانتی متر

diameter	(90mm)
length	(25cm)

23

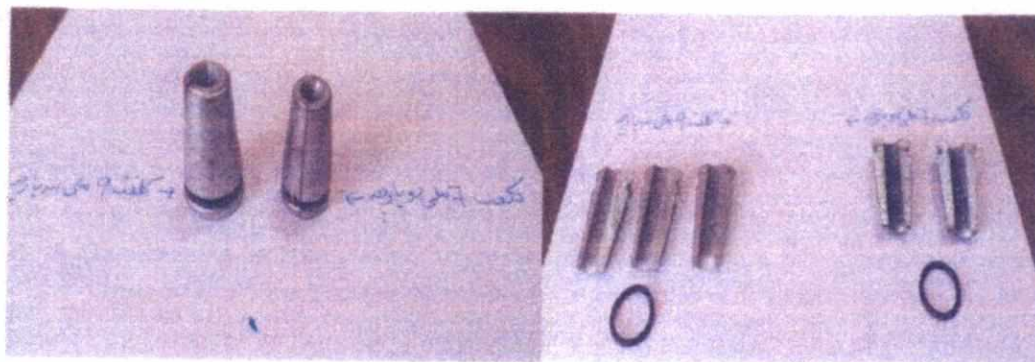
لورک سایز کلان 30 سانتی متر

diameter	(90mm)
length	(30cm)

24

کلفت 7 ملی دو پارچه برجسته اصلی

قطر پایینی داخلی 7 ملی، قطر بالایی داخلی 7 ملی، قطر بالایی بیرونی 16.5 ملی، قطر پایینی بیرونی 12 ملی



25

کلفت 9 ملی سه بارجه اصلی

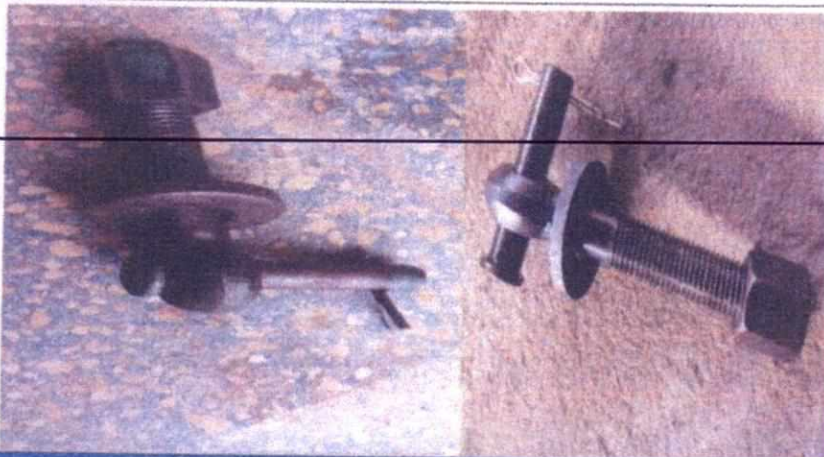
قطر پایینی داخلی 9 ملی جوری دار، قطر بالایی داخلی 9 ملی، قطر بالایی بیرونی 21 ملی، قطر پایینی بیرونی 13 ملی



26

نوت و بولت 30 میلی برای قالب ها معه نلت، واشر، پین و کاتر

Length	(14.5cm)
Material	(iron)
Weight	(590gr)
diameter of nat	30mm
diameter of bolt	18mm
thickness of nat	300mm
katar	diameter (17mm)
length of katar	7Cm
Washer: outside diameter	50mm
inside diameter	20mm
thickness	7mm



27

آب جوشنی سه کیلووات ماشین بخار

Voltage	2200v
Power	3Kw
Tube diameter	10 mm
Tube length	300 mm
Mounting thread diameter	18 mm



Material	Stainless, iron head
Weight	276 g/pc



28

جالی سیم 18 ملی

inside diameter	20mm
Diameter of Wire	5mm
Material of sieve	iron



29

جالی سیم 8 ملی

inside diameter	5mm
Diameter of Wire	5mm



[Handwritten signature]

Material of sieve

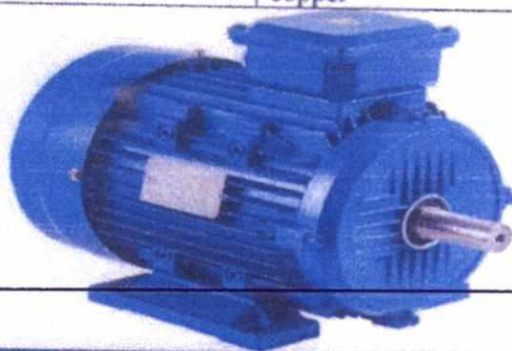
iron



30

موتور 7.5 کیلو وات 1440 دور در دقیقه برای ماشین سنگ شکن

Power	7.5 KW
Speed	1440 rpm
Voltage	380-220 V
Air Temperature	15-40 CC
frequency	50Hz
Phase	3
Coil material	copper

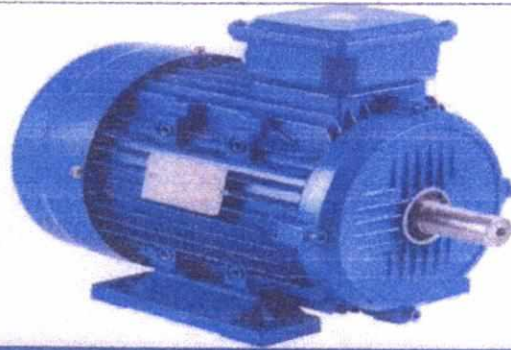


31

موتور 7.5 کیلووات با دوران 2900 دور بر دقیقه

Power	7.5 KW
Speed	2900 rpm
Voltage	380-220 V
Air Temperature	15-40 CC
frequency	50Hz
Phase	3
Coil material	copper





32

موتور 2.5 کیلووات بریک دار معه گیر یکس پادوران 1450 دور در دقیقه

Power	2.5 KW
Speed	1445 rpm
Voltage	380-220 V
Air Temperature	15-40 CC
frequency	50Hz
Phase	3
Coil material	copper
Model	gearbox
Trolley Travelling Speed	20m/min
Braking Torque	5.5 N-M



33

موتور 3 کیلووات بریک دار یا دوران 1400 دور در دقیقه

Power	3 KW
Speed	1400rpm
Voltage	380-220 V
Air Temperature	15-40 CC
frequency	50Hz
Phase	3
Coil material	copper
Model	braked
Braking Torque	5.5 N-M



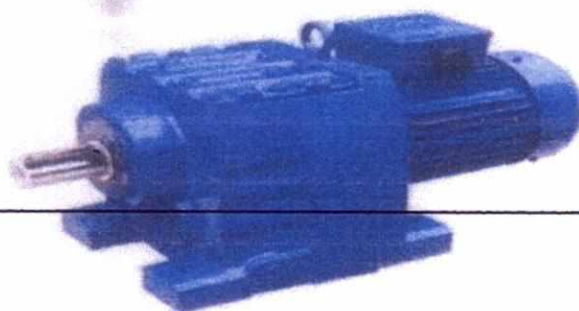
[Handwritten signature]



34

موتور 4 کیلووات بریک دار معه گیر یکس یا دوران 1400 دور در دقیقه

Power	4 KW
Speed	1400 rpm
Voltage	380-220 V
Air Temperature	15-40 CC
frequency	50Hz
Phase	3
Coil material	copper
Model	gearbox
Trolley Travelling Speed	20m/min
Braking Torque	5.5 N-M



35

بل چرخ اصلی 8 انچ

Size	14 inch
Type: Steel	Metal Cutting Wheel
Dimension	(3x25x355) mm



[Handwritten signature]



36

تسمه گومی کون سلفی سه متره

length	3m
width	10-12CM
thickness	5mm



FIGURE III

37

تسمه ترانسپورتو 50 سانتی ماشین سنگ شکن

width	50Cm
Thickness	1 Cm
number of wire	3 with best Rabber.



38

تسمه ترانسپورتو 45 سانتی ماشین سنگ شکن

width	50Cm
Thickness	1 Cm
number of wire	3 with best Rabber.



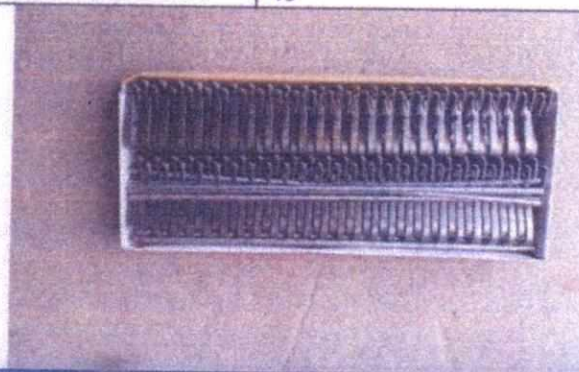
[Handwritten signature]



39

پمپجالیگ لیمبر 45 بشکی U

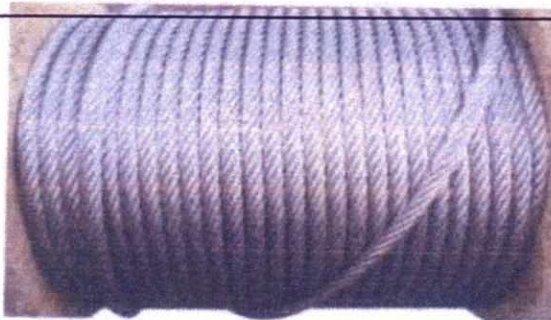
type	U
N0	45



40

کیبل 16 ملی فولادی

Type:	Stainless Steel Wire
Standard:	ASTM, AISI, GB, JIS, DIN, EN
Thickness	16mm



41

کیبل 12 ملی فولادی


Type:	Stainless Steel Wire
Standard:	ASTM, AISI, GB, JIS, DIN, EN
Thickness	12mm





42

قالب پایه 12 متره کش

Machine Name	Description			Qty	Remarks
	L/m	T.D/mm	B.D/mm		
Concrete pole mold 	12	315	495	5	Materials: Steel Longitudinal Plat Thickness: 14mm Distance: 3000mm c/c



[Handwritten signature]

Sr. No	مشخصات فنیکی لات ششم ماشین آلات سال 1403 Technical Specifications of Electrical Equipments	توضیح مطابقت	
		ندارد	دارد

43

Over Head Traveling Crane



Hoist Capacity: 10,000 Kgr
Lifting High: 9m
Lifting Speed: 8 m/mie
Rated Voltage : 380/220 v
Hoist Motor Power : 19.6 kw
Rope Diameter: 14mm
Braking Torque: 145 N-M

ماشین قطع کاری و سوراخ کاری آهن زاویه

44

Name	Angle Punching and Shearing Line
Number of Punching Units	2
Punching Power	44 Tons
Punching Diameter (mm)	32
Punching Thickness (mm)	12
Shearing Power	175 Tons
Max Material Size (mm)	160 X 160
Min Material Size (mm)	30x30x3
Max Material Length (mm)	12000

The machine should have the ability to process different designs such as plate and U profiles.

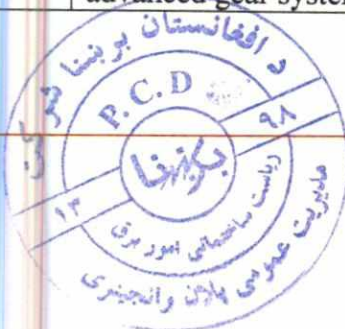
The machine must be capable of drilling, angle cutting and accurate marking

The punching unit must have a special hydraulic design and include 48-ton pistons with leakage characteristics that are resistant to high pressure and perform punching with speed and precision, and three punching stations in each hydraulic unit for shaped holes such as square, rectangular and Do the gap.

The marking unit is hydraulically fed and allows up to 8 characters (including letters and numbers) to be placed on one cartridge, with 8 cartridges in the system. All characters are pressed simultaneously and mark a cartridge in about 4 seconds. This device should be such that the results remain clear even after the dyeing or blasting processes

The machine should have a precision cutting unit and use a 192 ton piston to cut metal in one quick motion. and have the ability to adjust the blade angles

The feeding arm is designed for accurate placement of profiles using an advanced gear system. The feed arm allows the profiles to be placed by



A loading arm will transfer material from preload tables to inbound conveyors automatically, eliminating manual intervention.

AKD Designer is built to enable smooth and easy machine operation. It boasts a user-friendly interface and smart design, granting strong programming potential. The AKD Designer can be adjusted to suit individual needs and includes an auto-nesting module for peak processing performance. Users can conveniently preview the parts in 3-D within the program and the multifaceted modules permit importing, adjusting, creation and export of part programs. DSTV files can also be brought into the AKD Designer for modification or for generating CNC files.

Name _____

Three-function CNC machine for bending, cutting and punching copper bus bar

Punch

Maximum punch force
(KN)

300

Punch diameter range
(MM)

Ø4.3-Ø25

Maximum thickness
(MM)

12

Maximum width
(MM)

150

Maximum knife
thickness (MM)

12

Cutting or Shearing

Maximum cutting
width (MM)

160

45

Vertical bending

Maximum bending force (KN)

300

Maximum thickness
(MM)

12

Maximum width
(MM)

100

Horizontal bending

Maximum width
(MM)

150

The maximum angle
(degree)

90 degrees

Power (KW)

4

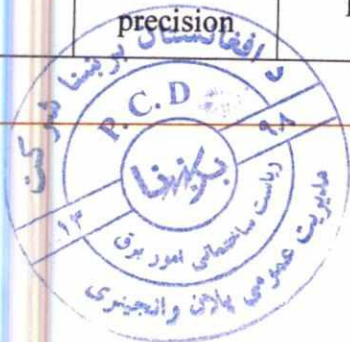
CNC
precision

Bending accuracy

± 1 degree

Repeat bending
accuracy

± 0.3 degrees



A handwritten signature in blue ink, appearing to read 'Lshiv', is positioned above a large, stylized, and somewhat abstract flourish that extends across the page. The flourish consists of several loops and a long horizontal line ending in a small, decorative swirl.

Functions	Bending in vertical and horizontal direction.
	Punch for round and rectangular holes.
	Mesh cutting.
	Special for crimping, twisting, twisting, loosening of cable joints.
spare parts	Mandrels and round matrices from M6 to M18
	• Rectangular and round molds
	motor
	CNC and control parts
Warranty	Hydraulic jack
	2 years
After Sales Services	
Online Service	

ماشین لایزری چاپ و حکاکی مشخصات بر روی میتریکس و سوئیچوردها

Model	UV-3/UV-5/UV-8
Power	3W,5W,8W
Wavelength	355nm
Beam Quality	M2<1.3<
Output Power	10%-100%
Output Frequency	15KHz-100KHz
Power Stability(8h)	<±2%rm<
Pulse to pulse instabilit	<±3%rms<
Spatial Mode	TEM00(M2<1.3)<
Beam Divergence	<2 mrad="">
Beam Diameter	0.6±0.1mm
Beam Roundness	>90%
Pointing stability	<50urad<

46

Polarization Direction	Horizontal
Polarization Ratio	100:1
Cooling	Air-cooling/Water-cooling(8W)
After-sales Service:	Online Service
Warranty:	2 year
Laser Visibility:	Invisible
Applicable Material:	Metal
Cooling System:	Air / Water Cooling
Technical Class:	Pulse Laser

spare parts

- generator or base or laser source
- Lenses
- CNC system or controller
- Stabilizer / regulated power supply
- Laser cutting machine head
- motors and servo motors
- Chiller or water cooler
- Gas cylinders



Handwritten signatures and stamps at the bottom of the page, including a large signature and a smaller stamp with the word 'بازار' (Bazaar) inside a circle.

47	ماشین وادنگ اصلی کوايل مسی 500 آمپر	
	Air compressor, gas storage tank	
	Air cooler dryer, filter	
	Dust collector or smoke suction system	
	Coil winding material	Copper
	Rated Input Voltage(V)	3ph, 380V
	Input Frequency(Hz)	50/60
	Rated Input Power(KVA)	24.6
	Output Voltage(V)	42
	Output Current(A)	20-500
	Duty Cycle (%)	100%
	Welding Wire Diameter(mm)	0.6-2.0
	Wire Feed Speed(m/min)	1.5-22
	spare parts	One Piece of all the spare parts
	Warranty	1 year



Handwritten signatures and initials in blue ink, including a large signature and several smaller ones.

Handwritten signature in blue ink.

48- Technical Specifications of iM101 Manual Total Station

Telescope	
Manufacturer	<i>To be specified</i>
Magnification / Resolving Power	30x / 2.5"
Length	171mm (6.7in.)
Objective aperture	45mm (48mm for EDM)
Image	Erect
Field of View	1°30' (26m / 1,000m)
Minimum focus	1.3m
Reticle illumination	5 brightness levels

Angle Measurement

Display Resolution	0.5"/1"/5" (0.0002 / 0.001gon, 0.005 / 0.02mil)
Accuracy (ISO 17123-3:2001)	1"
Dual Axis Compensator	Dual-axis liquid tilt sensor, working range: ±6'
Collimation Compensation	On/Off (selectable)



Laser output (Reflector less mode)	Class 3R / Prism / sheet mode: Class 1
Range reflector less mode	0.3 to 800m (2,620ft.) / Under good conditions*: 1,000m (3,280ft.)
Reflective sheet	<ul style="list-style-type: none"> • RS90N-K: 1.3 to 500m (4.3 to 1,640ft.), RS50N-K: 1.3 to 300m (4.3 to 980ft.) • RS10N-K: 1.3 to 100m (4.3 to 320ft.)
Mini Prism	1.3 to 500m (4.3 to 1,640ft.)
One Prism	1.3 to 5,000m (4.3 to 16,400ft.) / Under good conditions* : 6,000m (19,680ft.)
Display Resolution	<ul style="list-style-type: none"> • Fine / Rapid : 0.0001m (0.001ft. / 1/16 in.) / 0.001m (0.005ft. / 1/8 in.) (selectable) • Tracking / Road : 0.001m (0.005ft. / 1/8 in.) / 0.01m (0.02ft. / 1/2 in.) (selectable)
Accuracy	<ul style="list-style-type: none"> • Reflector less: (2 + 2ppm x D) mm • Reflective Sheet: (2 + 2ppm x D) mm • Prism Mode: (1.5 + 2ppm x D) mm

Measuring Time

Fine Measurement Mode	0.9 sec.(Initial 1.5 sec.)
Rapid Measurement Mode	0.6 sec.(Initial 1.3 sec.)
Tracking Measurement Mode	0.4 sec.(Initial 1.3 sec.)

OS, Interface and Data Management



Operating system	Linux
Display / Keyboard	Graphic LCD, 192 x 80 dots, backlight, contrast adjustment / Alphanumeric keyboard / 28 keys with backlight
Control panel location	On both faces
Trigger key	Yes (right side)
Data storage	<ul style="list-style-type: none"> • Internal memory: Approx. 50,000 points • Plug-in memory device: USB flash memory (max. 32GB)
Interface	Serial RS-232C, USB2.0 (Type A for USB flash memory)
Bluetooth® modem (option)	Bluetooth Class 1.5, Operating range: up to 10m
General	
Laser pointer	Coaxial red laser using EDM beam
Guide light	Green LED (524nm) and Red LED (626nm), Operating range: 1.3 to 150m (4.3 to 490ft.)
Levels Graphic	6' (Inner Circle)
Circular Level	10'/2mm
Optical Plummet	<ul style="list-style-type: none"> • Magnification: 3x • Minimum focus: 0.5m from tribrach bottom
Dust and water protection	IP66 (IEC 60529:2001)



Operating temperature	-4°F to +122°F (-20°C to +50°C)
Size with handle (w x d x h mm)	183(W)x 181(D)x 348(H)mm
Weight with battery and tribrach	Approx. 5.3kg (11.7lb)
Power Supply	
Battery (BDC70) Detachable battery	Li-ion rechargeable battery
Operating time (20°C) BDC70	Approx. 28 hours (single distance measurement every 30 seconds)



جدول تحول دهي اقلام تجهيزات و ماشین آلات مورد نیاز فابریکات تولیدی ریاست ساختمانی امور برق

ماره	اسم جنس	مقدار	واحد	ربع اول معیاد قرار داد	ربع دوم معیاد قرار داد	ملاحظات
1	نت و بولت 30 میلی برای قالب ها معه پلت، واش، پن و کاتر	3,000	عدد	3,000.00	0.00	هودخیل
2	موتورگیریکس دار بریکدار سه کیلووات طبق نمونه برای حرکت کرین سقفی به مسیر خط ریل	4	پایه	4.00	0.00	هودخیل
3	موتورگیریکس دار بریکدار سه کیلووات طبق نمونه جهت حرکت کرین سقفی به مسیر بوم یا گادر	2	پایه	2.00	0.00	هودخیل
4	کرن سقفی 10 تنه هرا با کمک چکراصلی معه کیبل زنجر و چنگک	2	پایه	2.00	0.00	هودخیل
5	تفنکچه تیت کاری نت بولت 30 میلی قالب ها	12	پایه	12.00	0.00	هودخیل
6	ماشین کش سیخ های فولادی	3	پایه	3.00	0.00	هودخیل
7	ماشین هیدنگ سیخ های فولادی همرا با پرزه جات اضافی	3	پایه	3.00	0.00	هودخیل
8	کتر اصلی 14 انچ	2	پایه	2.00	0.00	هودخیل
9	چرخ دستی 9 انچ اصلی	2	پایه	2.00	0.00	هودخیل
10	برمه سرمیزی سوراخ کن اصلی	1	پایه	1.00	0.00	هودخیل
11	توازن ساز طبق دیزاین برای استفاده از یک کرن درانتقالات همرا با زنجر وچنگک آن	2	عدد	2.00	0.00	هودخیل
12	آب جوشی سه کیلووات ماشین بخار	100	دانه	100.00	0.00	هودخیل
13	قالب 9 متره پایه کش همرا با تاب و 500 عدد نت و بولت اضافی آن	2	عدد	0.00	2.00	هودخیل
14	قالب 10 متره پایه کش همرا با تاب و 500 عدد نت و بولت اضافی آن	2	عدد	0.00	2.00	هودخیل
15	قالب 18 متره همرا با تاب و 500 عدد نت و بولت اضافی آن	2	عدد	0.00	2.00	هودخیل
16	قالب 21 متره همرا با تاب و 500 عدد نت و بولت اضافی آن	2	عدد	0.00	2.00	هودخیل
17	ماشین بخار برقی	1	پایه	0.00	1.00	بلخمری
18	ماشین کش سیخ های فولادی	2	پایه	0.00	2.00	بلخمری
19	ماشین تست پایه	1	پایه	0.00	1.00	بلخمری
20	ماشین دوران پایه ها	2	پایه	2.00	0.00	بلخمری
21	پل چکش سنگ شکن 32 انچ	6	جوره	6.00	0.00	بلخمری
22	لورک سایز خورد 25 سانتي متر	30	عدد	30.00	0.00	بلخمری
23	لورک سایز کلان 30 سانتي متر	30	عدد	30.00	0.00	بلخمری
24	کلفت 7 ملی دو پارچه برجسته اصلی	3,000	جوره	3,000.00	0.00	بلخمری
25	کلفت 9 ملی سه پارچه اصلی	2,000	جوره	2,000.00	0.00	بلخمری
26	نت و بولت 30 میلی برای قالب ها معه پلت، واش، پن و کاتر	4,000	عدد	4,000.00	0.00	بلخمری
27	آب جوشی سه کیلووات ماشین بخار	200	عدد	200.00	0.00	بلخمری
28	جالی بادامی 18 ملی سایز 1x1.5m	10	تخته	10.00	0.00	بلخمری
29	جالی سرمه ریگ 8 ملی سایز 1x1.5m	10	تخته	10.00	0.00	بلخمری
30	موتور 7.5 کیلووات با دوران 1440 دور بر دقیقه	2	پایه	2.00	0.00	بلخمری
31	موتور 7.5 کیلووات با دوران 2900 دور بر دقیقه	1	پایه	1.00	0.00	بلخمری
32	موتور 2.5 کیلووات بریک دار معه گیر بکس بادوران 1450 دور در دقیقه	2	پایه	2.00	0.00	بلخمری
33	موتور 3 کیلووات بریک دار با دوران 1400 دور در دقیقه	1	پایه	1.00	0.00	بلخمری
34	موتور 4 کیلووات بریک دار معه گیر بکس با دوران 1400 دور در دقیقه	4	پایه	4.00	0.00	بلخمری
35	پل چرخ اصلی 9 انچ	2,000	قرص	2,000.00	0.00	بلخمری
36	تسمه گرمچی کرن سقفی سه متره	10	جوره	10.00	0.00	بلخمری
37	تسمه ترانسپورتر 50 سانتي ماشین سنگ شکن	50	متر	50.00	0.00	بلخمری
38	تسمه ترانسپورتر 45 سانتي ماشین سنگ شکن	50	متر	50.00	0.00	بلخمری
39	پنچالک نمبر 45 شکل U	10	قطی	10.00	0.00	بلخمری
40	کیبل 16 ملی فولادی	100	متر	100.00	0.00	بلخمری
41	کیبل 12 ملی فولادی	100	متر	100.00	0.00	بلخمری
42	قالب پایه 12 متره کش	5	عدد	0.00	5.00	بلخمری



ردت ششم

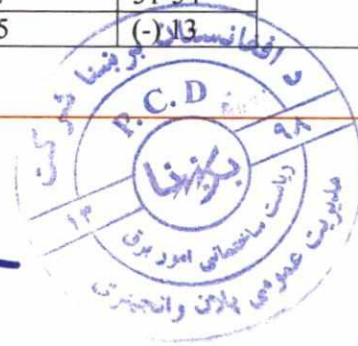
پنخمری	0.00	1.00	پایه	1	کرن سقفی 10 تنه هرا با کمک چکرا اصلی معمه کیبل زنجیر و چنگک
شاپ تولیدی	1.00	0.00	پایه	1	ماشین قطع کاری و سوراخ کاری آهن زاویه
شاپ تولیدی	1.00	0.00	پایه	1	ماشین سه کاره قطع کاری ، برمه کاری و خم کاری بسیار مسی
شاپ تولیدی	1.00	0.00	پایه	1	ماشین لایزری چاپ و حکاکی مشخصات بر روی میتریکس و سوئیچبوردها
شاپ تولیدی	0.00	10.00	پایه	10.00	ماشین ولدنگ 500 آمپر کواپل مسی اصلی
پلان و انجنیری	0.00	0.00	پایه	1.00	دستگاه توتال ستیشن

۰۰۰ ۳۴۲۰



لوت ششم

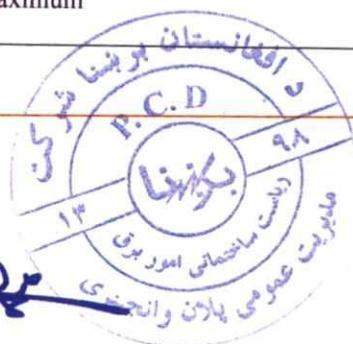
Sr. No	مشخصات تخنیکي لات هفتم جدول اقلام روغنيات سال 1403 Technical Specifications of Electrical Equipments			توضيح مطابقت	
				ندارد	دارد
1	رنگ پودري نوع الكترولاستاتيک				
	Substrate	Steel			
	Pre-Treatment	Vapor Degrease & Immersion Zinc Phosphate			
	Type of Powder	: Polyester			
	Film thickness	70 micros			
2	رنگ ضد زنگ فولادي				
	Standard	No-4908333834			
	Can weight	1Kg or 4 Kg			
	Code	200			
	Color	Rust Proof , Grey14			
	Liquification Keeping	200+-7 °C			
3	رنگ روغني فولادي				
	Specifications	Oil paint for metal (Stainless Steel Metal), Its Color be Grey14, Thin (by volume) 15-20% for Conventional air spray, Application can be done by brush, roller and air spray. Container weight be 1 Kg.			
	گاز اكسيجن جهت برش كاري				
	Applicable Standard	-			
	Grade	Ultra-Pure			
	Percentage volume	999.99			
	Carbon Monoxide/ Carbon Dioxide	1 ppm max			
	Acid and Sulphur Dioxide	-			
4	Phosphine and Hydrogen Sulphide				
	Moisture	2 ppm max			
	Arsenic mg/normal m3	-			
	Oil, PPM by weight	-			
	Halogen	To pass test (as per IS : 309)			
	Oxidizing Substances	To pass test (as per IS : 309)			
	Acidity or Alkalinity	To pass test (as per IS : 309)			
	Argon (maximum)	5 ppm max.			
	Hydrocarbons	1 ppm max.			
	Any other impurity (maximum)	Bidder to Specify			
5	گاز مایع جهت برش كاري				
	Properties	Propane	Butane	LPG (C3:30% & C4:70%)	
	General				
	Physical state at 15°C and 1 atm	Gas	Gas	Gas	
	Molecular weight (gm/mole)	44.09	58.12	51-54	
	Boiling Point at 1 atm (°C)	(-) 42.1	(-) 0.5	(-) 3	



Freezing point (°C)	(-) 187.7	(-) 138.4	(-) 153
Critical Temperature (°C)	96.67	305.6	243
Critical Pressure (psia)	470	500	490
Color (appearance)	Colorless	Colorless	Colorless
Odor	Odorless	Odorless	Odorless
Toxicity	Non toxic	Non toxic	Non toxic
Liquid			
Reid Vapor Pressure (RVP) at 15.6°C (bars)	12	3.6	5-7
Gross Calorific Value at 15°C (kcal/kg)	11900	11800	11830
Net Calorific Value at 15°C (kcal/kg)	10999	10845	10896
Liquid density at 15°C (kg/litre)	0.51	0.575	0.5550
Specific volume of liquid per Kg at 15 C (litre)	1.96	1.73	1.7990
Specific gravity of liquid at 15°C (w.r.t water = 1)	0.51	0.575	0.5555
Vapor			
Specific density at 15 C & 1 atm (kg/m3)	1.55	2.48	2.20
Specific Volume of Gas per kg at 15 C, 1 atm (m3)	0.5	0.38	0.42
Explosive limit (vol% of vapor in air gas mixture)	2.4 to 9.3	1.8 to 8.8	2 to 9.5
Gross Calorific Value at 15°C, (kcal/Nm3)	24000	30700	25226.67
Net Calorific Value at 15°C, (kcal/Nm3)	22600	29000	10896.3
Air required for combustion m3/m3	24	30	28

6

تیل پٹرول برای رنگمالی و پاک کاری	
Aromatics	45% v/v maximum with a 42% v/v maximum pool average across all grades 45% v/v maximum with a 35% v/v maximum pool average across all grades
Benzene	1.0% v/v maximum
Copper corrosion—3 h at 50°C	Class 1
Diisopropyl ether (DIPE, CAS no. 108-20-3)	1% v/v maximum
Distillation—final boiling point	210°C maximum
Ethanol	10% v/v maximum
Ethyl tertiary butyl ether (ETBE, CAS no. 637-92-3)	1% v/v maximum
Existent gum—washed	5 mg/100 mL maximum
Induction period—oxidation stability	360 minutes minimum
Lead	5 mg/L maximum
Methyl tertiary butyl ether (MTBE, CAS no. 1634-04-4)	1% v/v maximum



	Motor octane number (MON)	91 RON grade: 81.0 minimum 95 RON grade: 85.0 minimum	
	Olefins	18% v/v maximum	
	Oxygen	Petrol without ethanol: 2.7% m/m maximum Petrol with ethanol: 3.9% m/m maximum	
7	Phosphorus	1.3 mg/L maximum	1
	Research octane number (RON)	91 RON grade: 91.0 minimum 95 RON grade: 95.0 minimum	
	Tertiary butyl alcohol (TBA, CAS no. 75-65-0)	0.5% v/v maximum	
	صافی از گاد لیلامی جهت پاک کاری ماشین آلات		
	Specifications	Piece of cloths for cleaning dust of iron made products and cleaning of machines.	








جدول تحويل دهي اقلام روغتيات جهت رنگمال تجهيزات توليد شده ، جرب کاری و پاک کاری ماشین آلات فابریکات تولیدی ریاست ساختمانی امور برق

ماره	اسم جنس	مقدار	واحد	ربع اول معیاد قرار داد	ربع دوم معیاد قرار داد	ربع سوم معیاد قرار داد	ربع چهارم معیاد قرار داد	ملاحظات
1	رنگ بودری نوع کره بی الکترواستاتیک	13,000.00	کیلوگرام	3,250.00	3,250.00	3,250.00	3,250.00	
2	رنگ ضد زنگ فولادی	4,000.00	کیلوگرام	1,000.00	1,000.00	1,000.00	1,000.00	
3	رنگ روغنی فولادی	378.00	کیلوگرام	95.00	95.00	95.00	94.00	
4	گاز آکسیجن جهت برش کاری	281,000.00	پوند	70,250.00	70,250.00	70,250.00	70,250.00	
5	گاز مایع جهت برش کاری	351.25	کیلوگرام	87.81	87.00	87.00	89.44	
6	تیل پترول	4,750.00	لیتر	1,187.00	1,187.00	1,187.00	1,187.00	
7	صافی از گاد لیلای برای پاک کاری	2,688.39	کیلوگرام	672.10	672.10	672.10	672.10	

تاییدی مرجع نیاز مند !



Handwritten signatures and stamps, including a date stamp '1402/12/20' and a stamp 'Alto'.

د ت هفتم