

جدول تحویل دهی مواد خام مورد نیاز تولید پایه های آهن کانکرتی مختلف السایر در فابریکه پایه سازی هو دخیل کابل

| نماره | اسم جنس | مقدار | واحد | دوماه اول معیاد قرار داد | دو ماه دوم معیاد قرار داد | ملاحظات |
|-------|---|-----------|----------|-----------------------------|------------------------------|---------|
| 1 | سمنت مارک (PSI 10000) | 16,094.00 | خریطه | 8,047.00 | 8,047.00 | |
| 2 | سیخ پرستریس 7 میلی رخداری | 99.00 | تن | 50.00 | 49.00 | |
| 3 | سیخ اسپرل 4 میلی بدون رخ | 24.00 | تن | 12.00 | 12.00 | |
| 4 | سیخ تعمیراتی 8 میلی بدون رخ | 9.00 | تن | 5.00 | 4.00 | |
| 5 | جفل بادامی و نخودی | 1,118.00 | متر مکعب | 559.00 | 559.00 | |
| 6 | ریگ شسته شده | 718.00 | متر مکعب | 359.00 | 539.00 | |
| 7 | سیخ ولدنگ سه میلی | 210.00 | کیلوگرام | 210.00 | 0.00 | |
| 8 | سیم جستی یک میلی | 0.41 | تن | 0.41 | 0.00 | |
| 9 | پل چرخ 9 انچ اصلی | 700.00 | قرص | 700.00 | 0.00 | |
| 10 | پل کتر 14 انچ اصلی | 300.00 | قرص | 300.00 | 0.00 | |
| 11 | چوب خار روسی برای ستاک پایه (6 متره 9 در 9 سانتی) | 300.00 | خاده | 300.00 | 0.00 | |

نوت: شرکت قرار دادی نظر به توانایی خویش میتواند تمام اقلام مندرجه جدول را در دو ماه اول معیاد قرار داد تحویل نماید

تاییدی مرجع نیاز مند!



۱۵۰۲۰۲۰۲
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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.

۲. مشخصات تخنیکي سیخ فولادی پرستریس ۷ میلی رخدار برای تولید پایه های آهن کانکریتی 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.

۳. مشخصات تخنیکي سیم چهار میلی بدون رخ برای ساخت اسپایرل پایه های گول آهن کانکریتی 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.

۴. مشخصات تخنیکي سیخ تعمیراتی ۸ میلی بدون رخ برای ساخت رینگ یا گزدمک 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.

5. مشخصات تکنیکی جفل بادامی ونخودی به سائز کوچتراز ۱۸ میلی متر بزرگتر از ۴ 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.

6. مشخصات تکنیکی 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.

7. مشخصات تکنیکی سیخ ولدینگ اصلی ۳ میلی جهت ولدینگ کاری گژدمک ها

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

Specification: 3.2x350mm

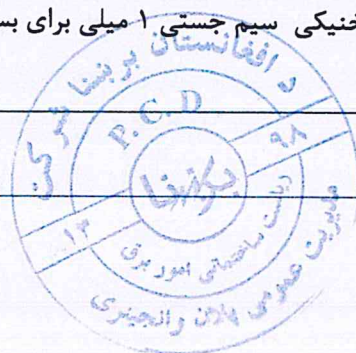
Trademark: Great Wall

Size: 302mm

Color: Any

8. مشخصات تکنیکی سیم جستی ۱ 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.

9. مشخصا تخنيکی برای پل چرخ ۹ انچ اصلی

Size: 9 inch

Type: Steel, Metal Cutting Wheel

Dimension : (3x25x230) mm

10. مشخصا تخنيکی برای پل کتر ۱۴ انچ اصلی

Size: 14 inch

Type: Steel, Metal Cutting Wheel

Dimension : (3x25x355) mm

11. چوب خار چهار رخ برای استاک پایه ها

طول : 6 متر

عرض : 9x9Cm



جدول تحويل دهي مواد و آهن آلات در شاپ توليدي رياست ساختماني امور برق

| شماره | اسم جنس | مقدار | واحد | دوماه اول معياد قرار داد | دو ماه دوم معياد قرار داد | ملاحظات |
|-------|-------------------------------------|-----------|----------|--------------------------|---------------------------|---------|
| 1 | آهن تخته سپاه (1250X2500X1,5)mm | 137.00 | تخته | 69.00 | 68.00 | |
| 2 | آهن تخته سپاه 1000*2000*1.2 ملی متر | 928.00 | تخته | 464.00 | 464.00 | |
| 3 | آهن تخته سپاه 860*1860*0.9 ملی متر | 309.00 | تخته | 155.00 | 154.00 | |
| 4 | نل 6 انچ شش متره 135 کیلوگرام | 123.00 | خاده | 62.00 | 61.00 | |
| 5 | نل 4 انچ شش متره 75 کیلوگرام | 62.00 | خاده | 62.00 | 0.00 | |
| 6 | آهن زاویه 75*75*7 ملی متر | 3,363.00 | متر | 1,682.00 | 1,681.00 | |
| 7 | آهن زاویه 60*60*6 ملی متر | 372.00 | متر | 186.00 | 186.00 | |
| 8 | آهن زاویه 50*50*5 ملی متر | 350.00 | متر | 175.00 | 175.00 | |
| 9 | آهن زاویه 30*30*3 ملی متر | 2,327.00 | متر | 1,164.00 | 1,163.00 | |
| 10 | آهن پتی 40*3 ملی متر | 1,714.00 | متر | 857.00 | 857.00 | |
| 11 | آهن پتی 30*3 ملی متر برای بینچه | 55.00 | متر | 55.00 | 0.00 | |
| 12 | سیخ چوریدار 14 ملی | 2,094.00 | متر | 1,047.00 | 1,047.00 | |
| 13 | سیخ گول صاف 14 ملی | 193.00 | متر | 193.00 | 0.00 | |
| 14 | سیخ گول رخدار 14 ملی | 259.00 | متر | 259.00 | 0.00 | |
| 15 | سیخ صاف 6 ملی برای قلفک | 88.00 | متر | 88.00 | 0.00 | |
| 16 | شنت 14mm*7cm | 100.00 | عدد | 100.00 | 0.00 | |
| 17 | نت و بولت (10x40)mm | 507.00 | عدد | 507.00 | 0.00 | |
| 18 | نت و بولت (8x40)mm | 1,746.00 | عدد | 1,746.00 | 0.00 | |
| 19 | نت و بولت (8x130)mm | 288.00 | عدد | 288.00 | 0.00 | |
| 20 | نت و بولت 8*25 | 928.00 | عدد | 928.00 | 0.00 | |
| 21 | نت و بولت 6*25 | 8,352.00 | عدد | 8,352.00 | 0.00 | |
| 22 | نت و بولت 6*10 | 1,856.00 | عدد | 1,856.00 | 0.00 | |
| 23 | نت و بولت 4*25 | 4,000.00 | عدد | 4,000.00 | 0.00 | |
| 24 | نت 14 ملی | 100.00 | عدد | 100.00 | 0.00 | |
| 25 | نت با قطر داخلی 8 ملی | 144.00 | عدد | 144.00 | 0.00 | |
| 26 | سیخ ولدنگ 3 ملی | 20,589.00 | عدد | 20,589.00 | 0.00 | |
| 27 | پل شالیف 7 انچ | 50.00 | عدد | 50.00 | 0.00 | |
| 28 | پل برمه 9 ملی | 30.00 | عدد | 30.00 | 0.00 | |
| 29 | پل برمه 8 ملی | 30.00 | عدد | 30.00 | 0.00 | |
| 30 | جالی محافظ از الودگی هوا | 32.00 | متر مربع | 32.00 | 0.00 | |
| 31 | چپراس نکلی معه بولت برای سویچبورد | 258.00 | عدد | 258.00 | 0.00 | |
| 32 | چپراس نکلی معه بولت برای میتريکس | 1,856.00 | عدد | 1,856.00 | 0.00 | |

نوت : شرکت قرار دادي نظر به توانايي خویش ميتواند تمام اقلام مندرجه جدول را در دو ماه اول معياد قرار داد تحويل نمايد

تاييدي مرجع نیاز مند !



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| Sr. No | مشخصات لات دوم آهن آلات پروژه ولسوالی سنگین ولایت هلمند مرتبط ریاست ساختمانی امور برق 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 860 x 1860 x 0.9mm | | | |
| | standard | ONE OF : AISI,ASTM,DIN,JIS,CE , , OR THEIR EQUIVALENT | | |
| | Thickness | 0.9mm | | |
| | Width | 860 mm | | |
| | Length | 1860 mm | | |
| | Type | Steel Plate | | |
| | Technique | Cold Rolled | | |
| | Surface | Smooth | | |
| | Special Use | High-Strength Steel Plate | | |
| 4 | نل فلزی 6 انچ شش متره 135 کیلوگرام | | | |
| | Standard | ASTM,AISI,DIN,EN,GB,JIS,API,DNV,ISO,DEP,CSA,BS | | |
| | Length | 6m | | |
| | Inner Diameter | 6" (150mm) | | |
| | Wall Thickness | 6mm | | |
| | Weight | 135Kg | | |
| | Grades | API 5L A-X100, GB/T9711 L190-L690 | | |
| 5 | 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 | | |



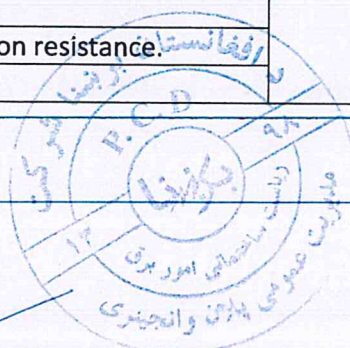
| | | |
|----|---|---|
| | Weight | 77Kg |
| | Grades | API 5L A-X100, GB/T9711 L190-L690 |
| 6 | (75mmx75mm x 7mm) Steel Angle Iron آهن زاویه | |
| | standard | ONE OF : AISI, ASTM, DIN, JIS, CE , OR THEIR EQUIVALENT |
| | Technique | Hot rolled |
| | Type | Equal Angle |
| | Surface | Black |
| | Width | 75mm |
| | High | 75mm |
| | Thickness | 7mm |
| | Length | 12m |
| 7 | (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 |
| 8 | (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 |
| 9 | 30mmx30mmx3mm آهن زاویه | |
| | standard | ONE OF : AISI, ASTM, DIN, JIS, CE , OR THEIR EQUIVALENT |
| | Technique | Hot rolled |
| | Type | Equal Angle |
| | Surface | Black |
| | Width | 30mm |
| | High | 30mm |
| | Thickness | 3mm |
| | Length | 6m |
| 10 | 40mmx3mm آهن پتی | |
| | Standard | ONE OF : AISI, ASTM, DIN, JIS, CE , OR THEIR EQUIVALENT |
| | Width | 40mm |



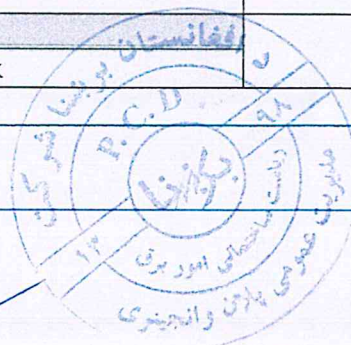
| | | | |
|----|---|---|--|
| | Thickness | 3mm | |
| | Weight | 0.94kg/m | |
| | Length | 6m | |
| 11 | آهن پتی 30mmx3mm | | |
| | Standard | ONE OF : AISI, ASTM, DIN, JIS, CE , OR THEIR EQUIVALENT | |
| | Width | 30mm | |
| | Thickness | 3mm | |
| | Weight | 0.7065kg/m | |
| | Length | 6m | |
| 12 | سیخ چوریدار 14 ملی متر | | |
| | 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 | |
| 13 | سیخ گول 14 ملی صاف | | |
| | 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 رخداری | | |
| | Standard | ASTM-A615/615M-96A GRAD 60 (420) | |
| | Item Name | Clamp Rod | |
| | Size Length | 11700mm | |
| | Deformed rebar | A615 G60 | |
| | Class | A3 35 GS | |
| 14 | 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. | | |
| | Specification | 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. | |
| | 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. | |
| 15 | سیخ گول صاف 6 ملی بدون رخ | | |
| | Diameter | 6 mm | |
| | Usage/Application | Construction | |
| | Features | Rust Proof | |
| | Technique | Hot Rolled | |
| | Shape | Round | |
| | Length | 6m | |
| 16 | اشنت 7Cm X 14mm | | |
| | 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 | 7Cm | |
| 17 | نت و بولت 10mmX40mm | | |
| | Material | Steel | |
| | Plating | Zinc, Zinc plated for moderate corrosion resistance. | |
| | Thread pitch | 1.25mm | |
| | Diameter | 10mm | |
| | Length | 40mm | |
| | Socket Size / Width across the flats | 17mm | |
| | Fully Threaded | YES | |
| | HEAD STYLE | HEX | |
| 18 | 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 | |
| 19 | 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 | |
| 20 | نت و بولت 25mmX8mm | | |
| | Specification | AISI,ASTM,DIN,GB,JIS,CE | |
| | Type | M 25X8 | |
| | Diameter | 8mm | |
| | Length | 25mm | |
| | OEM | YES | |
| 21 | نت و بولت 25mmX6mm | | |
| | Specification | AISI,ASTM,DIN,GB,JIS,CE | |
| | Type | M 25X6 | |
| | Diameter | 6mm | |
| | Length | 25mm | |
| | OEM | YES | |
| 22 | نت و بولت 10mmX6mm | | |
| | Specification | AISI,ASTM,DIN,GB,JIS,CE | |
| | Type | M 25X6 | |
| | Diameter | 6mm | |
| | Length | 10mm | |
| | OEM | YES | |
| 23 | نت و بولت 4X25mm | | |
| | Specification | AISI,ASTM,DIN,GB,JIS,CE | |
| | Type | M 25X4 | |
| | Diameter | 4mm | |
| | Length | 25mm | |
| | OEM | YES | |
| 24 | نت 14 ملی معہ 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) | |
| 25 | نت با قطر داخلی 8 ملی | | |
| | Material | Steel | |
| | Plating | Zinc plated for moderate corrosion resistance. | |
| | Inner Diameter | 8mm | |
| 26 | 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 | | |
| 27 | پل شلايف يا 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 | | | |
| 28 | پل برمه 9 ملي برای فلز | | | |
| | 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 | | |
| 29 | پل برمه 8 ملي 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 | | |
| 30 | جالی محافظت از الودگی هوا دروازه سوچپورد 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% | |
| 31 | چپراست نکلی برای سوچپورد | | |
| | 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) | |
| 32 | چپراست نکلی برای میتربکس ساینز 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) | |
| | Material | Standard Steel (hinge) Standard Steel (Pin) | |



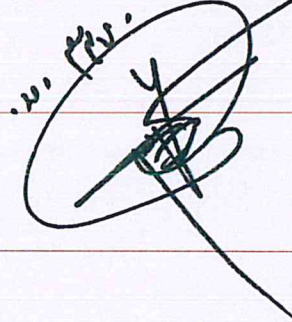
Handwritten signatures and initials in blue ink, including a large signature on the left and several initials and smaller signatures on the right.

جدول تحویل دهی مواد خام در شاپ تولیدی ریاست ساختمانی امور برق

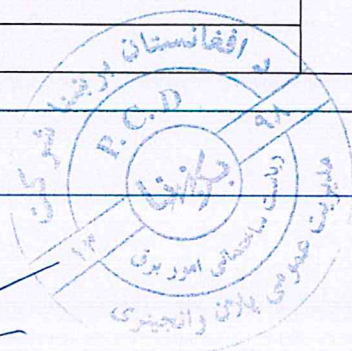
| ماره | اسم جنس | مقدار | واحد | دوماه اول معیاد قرار داد | دوماه دوم معیاد قرار داد | ملاحظات |
|------|---|-----------|------|--------------------------|--------------------------|---------|
| 1 | مین سویچ 630 امپیر | 9.00 | عدد | 5.00 | 4.00 | |
| 2 | مین سویچ 400 امپیر | 48.00 | عدد | 24.00 | 24.00 | |
| 3 | مین سویچ 250 امپیر | 13.00 | عدد | 7.00 | 6.00 | |
| 4 | مین سویچ 160 امپیر | 2.00 | عدد | 2.00 | 0.00 | |
| 5 | فیوز کاردکی 100/160A | 3,567.00 | عدد | 1,784.00 | 1,783.00 | |
| 6 | فیوز کاردکی 63/100A | 90.00 | عدد | 90.00 | 0.00 | |
| 7 | فیوز اتومات 25A | 5,568.00 | عدد | 2,784.00 | 2,784.00 | |
| 8 | ترانسفارمر جریان 630/5 امپیر | 27.00 | عدد | 27.00 | 0.00 | |
| 9 | ترانسفارمر جریان 400/5 امپیر | 144.00 | عدد | 144.00 | 0.00 | |
| 10 | ترانسفارمر جریان 250/5 امپیر | 39.00 | عدد | 39.00 | 0.00 | |
| 11 | ترانسفارمر جریان 160/5 امپیر | 6.00 | عدد | 6.00 | 0.00 | |
| 12 | مولتی متر سه فاز دیجیتالی | 72.00 | عدد | 72.00 | 0.00 | |
| 13 | رنگتال گروپ سه رنگ | 216.00 | عدد | 216.00 | 0.00 | |
| 14 | سیم یک لینه 2-6mm مسی | 14,384.00 | متر | 7,192.00 | 7,192.00 | |
| 15 | مسی 1.5mm (1x1.5) سیم فکسولی 2 | 1,368.00 | متر | 684.00 | 684.00 | |
| 16 | بسیار مسی 10X40mm | 49.50 | متر | 49.50 | 0.00 | |
| 17 | بسیار مسی 10X30mm | 216.00 | متر | 216.00 | 0.00 | |
| 18 | بسیار مسی 10X20mm | 60.00 | متر | 60.00 | 0.00 | |
| 19 | بسیار مسی 2X20mm | 92.80 | متر | 92.80 | 0.00 | |
| 20 | پوش بسیار 10X45mm | 45.00 | متر | 45.00 | 0.00 | |
| 21 | پوش بسیار 10X35mm | 192.00 | متر | 192.00 | 0.00 | |
| 22 | پوش بسیار 10X25mm | 53.00 | متر | 53.00 | 0.00 | |
| 23 | پوش ناسوز 8 ملی | 3,340.80 | متر | 3,340.80 | 0.00 | |
| 24 | سلنتر بسیار گیر برای سویچپورد | 144.00 | عدد | 144.00 | 0.00 | |
| 25 | سلنتر بسیار گیر برای میتر بکس | 1,856.00 | عدد | 1,856.00 | 0.00 | |
| 26 | بطره فیوزگیر فیوز اتومات | 204.00 | متر | 204.00 | 0.00 | |
| 27 | چین کلیت | 5,568.00 | جوره | 5,568.00 | 0.00 | |
| 28 | چینل پلاستیکی 10x40mm جالی دار | 93.60 | متر | 93.60 | 0.00 | |
| 29 | بست پلاستیکی | 576.00 | عدد | 576.00 | 0.00 | |
| 30 | گیرا برای کیبل 2*4 ملی | 5,568.00 | عدد | 5,568.00 | 0.00 | |
| 31 | گیرا برای کیبل های عبوری 16 ملی | 928.00 | عدد | 928.00 | 0.00 | |
| 32 | واشر برای محافظت از آب برای دروازه صندوق و سویچپورد | 2,883.00 | متر | 2,883.00 | 0.00 | |

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

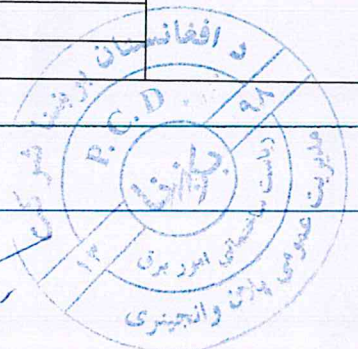
تاییدی مرجع نیاز مند !




| Sr. No | مشخصات تخنیکي لات سوم تجهیزات برقی پروژه ولسوالی سنگین ولایت هلمند سال 1403 Technical Specifications of Electrical Equipments | | توضیح مطابقت | |
|-----------|--|--------------|--------------|------|
| | | | ندارد | دارد |
| 1 | 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 | | |
| 2 | 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 | | |
| | Pole quantity | 3 pole | | |
| | Standard | IEC 60947.2 | | |
| | Extension Bus Bar Set | 6 pcs/set | | |
| 3 | 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 | | |



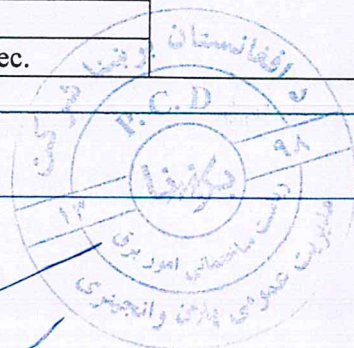
| | | |
|---|----------------------------|--|
| | Rated impulse voltage | 6 KV |
| | Pole quantity | 3 pole |
| | Standard | IEC 60947.2 |
| | Extension Bus Bar Set | 6 pcs/set |
| 4 | مین سویچ 160 A | |
| | Type | indoor |
| | MCCB: rated current | 160 A |
| | Rated continues current | 160 A |
| | Trip 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 |
| 5 | فیوز کار دکی 100A/160A | |
| | Standard | IEC 60269-1:2005 |
| | Dimension Standard | DIN 43620 |
| | Rated current | 100A |
| | Base Rated Current | 160A |
| | Voltage | 0.4kV |
| | Breaking Capacity | 100kA |
| | Type | Low voltage knife Fuse |
| | Fuse Bases | Fiber insulation with Galvanic ally silver Plated Contacts |
| | OEM | YES |
| 6 | فیوز کار دکی 63A/100A | |
| | Standard | IEC 60269-1:2005 |
| | Dimension Standard | DIN 43620 |
| | Rated current | 63A |
| | Base Rated Current | 100A |
| | Voltage | 0.4kV |
| | Breaking Capacity | 100kA |
| | Type | Low voltage knife Fuse |
| | Fuse Bases | Fiber insulation with Galvanic ally silver Plated Contacts |
| | OEM | YES |
| | فیوز اتومات 25A | |
| | Type | MCB |
| | Rated Voltage | 240V (AC) |
| | Rated Current | 25A |



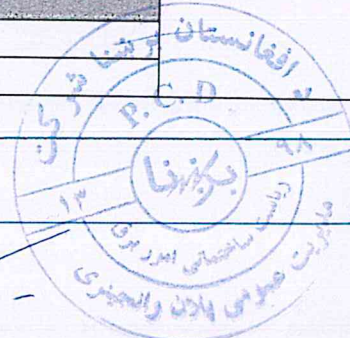
| | | |
|---|---|---|
| 7 | Number of Poles | 1 |
| | Cross Sectional Area | 6mm ² |
| | Rated Breaking Capacity | 10kA |
| | Insulation Voltage | 500V |
| | Rated Frequency | 50HZ |
| | Impulse Power Frequency | 2kV (50HZ) |
| | Housing Material | Polybutyne Terephthalate in RAL 7035 Grey Color |
| | Degree of Protection | IP20 as per IS13947/IEC 60529 |
| 8 | 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 |
| 9 | ترانسفارمر جریان 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 |
| | 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 |
| 10 | ترانسفارمر جریان 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 |
| 11 | 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(I_{dyn}) | 2.5* I_{th} / 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 |
| 12 | مولتی متر سه فاز دیجیتال برای سوییچبرد | |
| | 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 | 400 Ω |
| | Dimensions | 96 x 96 mm |
| | | Ampere meter 0...9999 A |
| | Measurement range | Voltmeter L1, L2, L3 0...500 V |
| | | Frequency meter 30...70 Hz |
| | | Ampere meter $\pm 1 \% + 2 d$ Voltmeter $\pm 1 \% + 2 d$ |
| | Accuracy | 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 |
| 13 | زنگال 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 |
| | سیم مسی یک لینه $1 \times 6 \text{ mm}^2$ برای ویرانگ میتریکس | |
| | Standard | IEC 60228 |
| | Insulation Material | PVC |



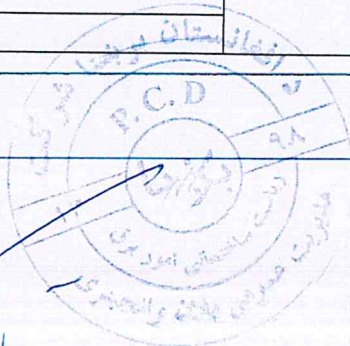
| | | |
|---|---|--|
| 14 | Conductor Material | Copper |
| | Voltage | 300-500V |
| | Cross Sectional Area | 6mm ² |
| | Core | Single |
| | Color | Red, Yellow, Blue, Black |
| | OEM | YES |
| | bundle | 100m |
| | Physical state | flexible |
| It should be in the form of 100 meter bundles | | |
| 15 | سیم فکسولی 2x1.5mm ² برای سویچبورد | |
| | Standard | One Of : IEC60228, DIN VDE 0295, EN60228 , OR THEIR EQUIVALENT |
| | 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 | |
| 16 | بسیار مسمی 10x40mm برای سویچبورد | |
| | Specification | IEC , BS , UL , VDE , JIS |
| | Material | Copper |
| | Width | 40mm |
| | Thickness | 10mm |
| | OEM | YES |
| | Rod Length | 4m |
| 17 | بسیار مسمی 10x30mm برای سویچبورد | |
| | Specification | IEC , BS , UL , VDE , JIS |
| | Material | Copper |
| | Width | 30mm |
| | Thickness | 10mm |
| | OEM | YES |
| | Rod Length | 4m |
| 18 | بسیار مسمی 10x20mm برای سویچبورد | |
| | Specification | IEC , BS , UL , VDE , JIS |
| | Material | Copper |
| | Width | 20mm |
| | Thickness | 10mm |
| | OEM | YES |
| | Rod Length | 4m |

Handwritten signatures and stamps are present at the bottom of the page. On the right, there is a circular official stamp with the text 'P.C.D' and 'دولت افغانستان' (Government of Afghanistan) around the perimeter. Below the stamp, there are several handwritten signatures in blue ink.

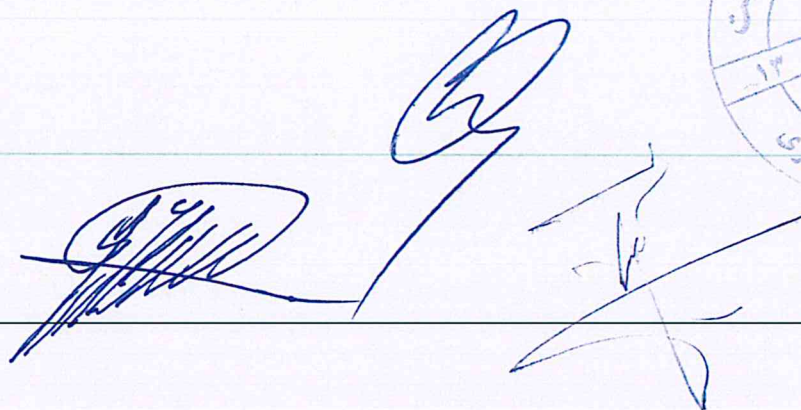
| | | |
|----|--|--|
| 19 | بسیار مسمی 2x20mm برای میتریکس | |
| | Specification | IEC , BS , UL , VDE , JIS |
| | Material | Copper |
| | Width | 20mm |
| | Thickness | 2mm |
| | OEM | YES |
| | Rod Length | 4m |
| 20 | پوش بسیار 10x45mm برای سویچبورد | |
| | Material | Silicon Rubber |
| | Color | Red, Yellow, Blue |
| | Withstand Temperature | 125 0C |
| | Width | 45mm |
| | Thickness | 10mm |
| 21 | پوش بسیار 10x35mm برای سویچبورد | |
| | Material | Silicon Rubber |
| | Color | Red, Yellow, Blue |
| | Withstand Temperature | 125 0C |
| | Width | 35mm |
| | Thickness | 10mm |
| 22 | پوش بسیار 10x25mm برای سویچبورد | |
| | Material | Silicon Rubber |
| | Color | Red, Yellow, Blue |
| | Withstand Temperature | 125 0C |
| | Width | 25mm |
| | Thickness | 10mm |
| 23 | پوش ناسوز 8 ملی | |
| | Specification | One of : IEC,BS,UL,VDE,JIS Or their equivalent |
| | Diameter | 8mm |
| | Length | 1m |
| | OEM | YES |
| | material | Fireproof fibers, silicone |
| | Color | Light cream with orange lines |
| 24 | سلنتر بسیار گیر برای سویچبورد سائز 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 |
| | سلنتر بسیار گیر برای میتریکس سائز خورد معه بولت واسپرنگ واشر | |
| | standards | One of : IEC,BS,UL,VDE,JIS Or their equivalent |

Handwritten signature and official stamp of the Ministry of Energy and Water of Afghanistan. The stamp is circular with the text 'جمهوری اسلامی افغانستان' (Islamic Republic of Afghanistan) around the perimeter and 'وزارت انرژی و آب' (Ministry of Energy and Water) in the center. There is also a smaller stamp with 'P.C.D' and 'بازرسی' (Inspection) visible.

| | | |
|----|--|--|
| 25 | 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 | |
| 26 | پطره فیوز گیر برای فیوز های 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 |
| 27 | جین 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 |
| | Length | 160mm |
| 28 | چینل پلاستیکی 10x36mm جالی دار برای سوییچبورد | |
| | Material | PVC |
| | Width | 36mm |
| | Thickness | 10mm |
| | Operating Temperature | -25-50 °C -13-122 °F |
| | Slot Type | Open |
| | Mounting holes | Single row |
| | Color | Grey |
| 29 | بست پلاستیکی | |
| | Size | Universal |
| | Material | Plastic |
| | Color | White |
| | Usage | Clipping of flexible wires together |
| 30 | گیرا برای کیبل های 2x6mm 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 | |
| 31 | گیرا برای کابل های 4x16mm ² میتریکس (gland cable-pg) | | |
| | Material | Fiber / rubber | |
| | Model | Pg21 | |
| | Cable range | 13-18mm | |
| | Thead O.D L2 | 28.3mm | |
| | Thead Length L1 | 12mm | |
| | Spanner Size A&E | 35/33mm | |
| | Color | Cream | |
| 32 | واشر محافظت از آب برای سویچبورد و میتریکس | | |
| | Material | EPDM/PVC/Silicon/TPV | |
| | Size | available | |
| | Features | weather resistance, anti-aging, noise proof, easily installed | |
| | Usage | For switchboard Meter boxes | |
| | Hardness | 25-90 shore A | |
| | Color | black | |



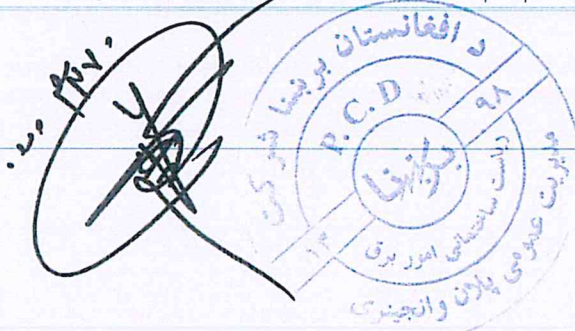
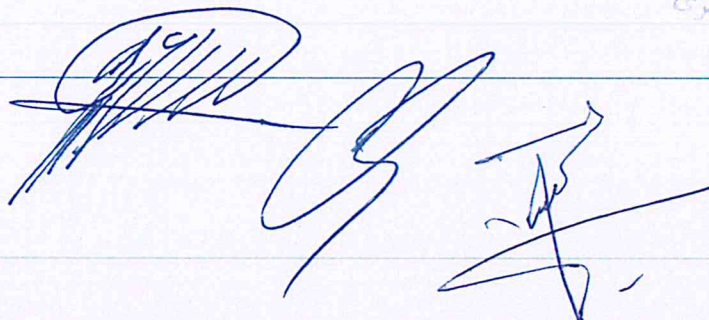
The image shows a large, stylized handwritten signature in blue ink. To the right of the signature is a circular official stamp. The stamp contains the text 'P.C.D' in the center, surrounded by 'د افغانستان پوهنځی' (Ministry of Education of Afghanistan) at the top and 'د کابل پوهنځی' (Kabul University) at the bottom. There are also some smaller, less legible markings within the stamp.

جدول تحویل دهی مواد خام در شاپ تولیدی ریاست ساختمانی امور برق

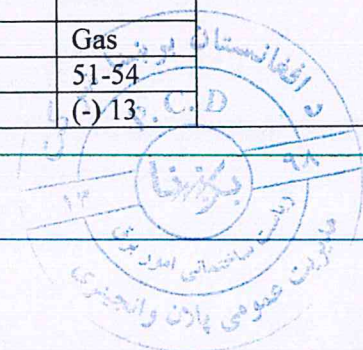
| شماره | اسم جنس | مقدار | واحد | دوماه اول معیاد قرار داد | دوماه دوم معیاد قرار داد | ملاحظات |
|-------|------------------------------------|----------|----------|--------------------------|--------------------------|---------|
| 1 | رنگ بودری نوع کره پی الکترواستاتیک | 736.00 | کیلوگرام | 368.00 | 368.00 | |
| 2 | رنگ ضد زنگ فولادی | 1,050.00 | کیلوگرام | 525.00 | 525.00 | |
| 3 | رنگ روغنی فولادی | 1,050.00 | کیلوگرام | 525.00 | 525.00 | |
| 4 | گاز آکسیجن جهت برش کاری | 9,840.00 | پوند | 4,920.00 | 4,920.00 | |
| 5 | گاز مایع جهت برش کاری | 10.00 | کیلوگرام | 5.00 | 5.00 | |
| 6 | تیل بطرول | 1,137.00 | لیتر | 568.00 | 569.00 | |
| 7 | صافی از گاد لیلای برای پاک کاری | 1,238.00 | کیلوگرام | 619.00 | 619.00 | |

نوت : شرکت قرار دادی نظر به توانایی خویش میتواند تمام اقلام مندرجه جدول را در دو ماه اول معیاد قرار داد تحویل نماید

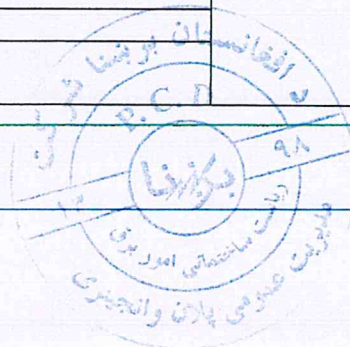
تاییدی مرجع نیاز مند !

| Sr. No | مشخصات تخنیکي لات چهارم جدول اقلام روغنیات پروژه ولسوالی سنگین ولایت هلمند سال 1403 | | | توضیح مطابقت | |
|----------------------------------|---|---|------------|-----------------------|------|
| | | | | ندارد | دارد |
| 1 | رنگ پودری نوع الکترواستاتیک | | | | |
| | Substrate | Steel | | | |
| | Pre-Treatment | Vapor Degrease & Immersion Zinc Phosphate | | | |
| | Type of Powder | : Polyester | | | |
| | Film thickness | 70 micros | | | |
| 2 | رنگ ضد زنگ فولادی | | | | |
| | Standard | No-4908333834 | | | |
| | Can weight | 1Kg or 4 Kg | | | |
| | Code | 200 | | | |
| | Color | Rust Proof , Grey14 | | | |
| 3 | رنگ روغنی فولادی | | | | |
| | 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. | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 4 | گاز اکسیجن جهت برش کاری | | | | |
| | Applicable Standard | - | | | |
| | Grade | Ultra-Pure | | | |
| | Percentage volume | 999.99 | | | |
| | Carbon Monoxide/ Carbon Dioxide | 1 ppm max | | | |
| | Acid and Sulphur Dioxide | - | | | |
| | 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) | | | |
| | 5 | Argon (maximum) | 5 ppm max. | | |
| Hydrocarbons | | 1 ppm max. | | | |
| Any other impurity (maximum) | | Bidder to Specify | | | |
| گاز مایع جهت برش کاری | | | | | |
| 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 | (-) 13 | |



| | | | | |
|---|---|--|------------|-----------|
| | 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 | 10896.36 |
| | Air required for combustion m3/m3 | 24 | 30 | 28 |
| | 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 | | |
| 6 | 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. | |