

شركت پتروشيمي نخل آسماري

اسناد و مدارک مربوط به مناقصه عمومی شماره:

٤٠٢/ ٠٦

موضوع مناقصه: خرید یک دستگاه منبع تغذیه بدون وقفه (UPS) به همراه متعلقات و باطری

شركت پتروشيمي نخل آسماري

تابستان 120۲

مهر و امضاء مناقصه گر



بسمه تعالى

فهرست اسناد مناقصه محدود شماره ٤٠٢/٠٦

- ١. دستورالعمل شركت در مناقصه
- ٢. شرايط تكميل وارسال اسناد مناقصه
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لازم به تذکر است که کلیه صفحات این دفترچه می بایست به مهر و امضاء مجاز و تعهد آور شرکت پیشنهاد دهنده برسد و کلیه جداول تکمیل شده باشد در غیر اینصورت پیشنهاد دهنده از مناقصه حذف می گردد.

مهر و امضاء مناقصه گر



دستورالعمل شركت در مناقصه

شرکت پتروشیمی نخل آسماری در نظر دارد نسبت به خرید یک دستگاه منبع تغذیه بدون وقفه(UPS) به همراه متعلقات و باطری با شرایط ذیل اقدام نماید.

- ١. خريدار: شركت پتروشيمي نخل آسماري
- دستگاه نظارت: کارفرما و یا هر شخص حقیقی و حقوقی که کارفرما معرفی نماید.
 - 7. مناقصه گزار: شرکت پتروشیمی نخل آسماری
- ۴. مدت اجرای کار (تحویل کالا): مدت تحویل کالا از زمان ابلاغ قرارداد به مدت به عدد ۶۰ روز تقویمی می باشد.
- موضوع مناقصه: خرید یک دستگاه منبع تغذیه بدون وقفه (UPS) به همراه متعلقات و باطری وفق مشخصات فنی پیوست (تجهیز پیشنهادی بایستی در وندور
 لیست وزارت نفت قرار داشته باشد)
 - 9. **محل تحویل کالا**: ماهشهر ، منطقه ویژه اقتصادی پتروشیمی ، سایت ۳ ، مجتمع پترویمی نخل آسماری
 - ٧. شرایط متقاضی: دارای توان فنی و مالی جهت انجام موضوع مناقصه
- . **مبلغ و نوع تضمین شرکت در مناقصه:** (۶.۰۰۰.۰۰۰،۰۰۰ ریال) شش میلیارد ریال است که باید به یکی از صورتهای مشروحه زیر ، همراه با اسناد مناقصه در پاکت" الف "به دستگاه مناقصه گزار تسلیم شود.
 - ضمانتنامه بانكى معتبر به ذى نفعى شركت پتروشيمى نخل آسمارى.
 - اصل فیش واریزی وجه نقد به حساب بانکی IR61054010138100008342006 بانک پارسیان شعبه سپهبد قرنی متعلق به کارفرما

. محل دريافت اسناد مناقصه:

- حضوری: شرکت پتروشیمی نخل آسماری: تهران ، میدان شیخ بهایی ، خیابان سئول ،نرسیده به چهار راه رشید یاسمی ، بن بست چهار ، پلاک ۱
 ، طبقه ۳
 - غير حضوري: دريافت اسناد و مدارك مناقصه از بخش مناقصات تارنمای شركت پتروشيمي نخل آسماري به آدرس www.napc.ir
- ۱۰. **آخرین مهلت تسلیم پیشنهادها**: پیشنهادات باید حداکثر تا ساعت ۱۵:۳۰ روز ۱۴۰۲/۰۴/۲۰ دریک پاکت، حاوی سه پاکت جداگانه (الف -ب -ج) و لاک و مهر شده درقبال اخذ رسید به دبیرخانه شرکت تحویل شود.
- ۱۱. نشانی مناقصه گزار و محل تحویل اسناد مناقصه: شرکت پتروشیمی نخل آسماری: تهران ، میدان شیخ بهایی ، خیابان سئول ،نرسیده به چهار راه رشید یاسمی ، بن بست چهار ، پلاک ۱ ، طبقه ۳ کد پستی ۱۹۹۵۸۵۵۵۹۵
 - ۱۲. محل و زمان بازگشایی پاکات: پاکات در روز ۱۴۰۲/۰۴/۲۱ و در سالن جلسات مناقصه گزار بازگشایی می گردد.
- ۱۳. تمام اسناد مناقصه ، از جمله این دعوتنامه باید به مهر و امضای مجاز تعهد آور پیشنهاد دهنده (برای اشخاص حقیقی امضای پیشنهاد دهنده) برسد و همراه با اسناد ارزیابی فنی در پاکت (ب) قرار داده شود.
 - ۱۴. به این مناقصه به هیچ وجه تعدیل و مابه التفاوت قیمت تعلق نمیگیرد.
 - ۱۵. نحوه پرداخت و پیش پرداخت و کلیه کسورات قانونی و بیمه تامین اجتماعی مطابق با شرایط پیش نویس پیمان که به پیوست اسناد می باشد خواهد بود.
 - ۱۶. شرکت در رد یا قبول هر یک یا تمام پیشنهادات واصله بدون آنکه محتاج به ذکر دلیل باشد مختار است.
 - ۱۷. به پیشنهادهای فاقد امضاء، مبهم ،مشروط ،دارای خط خوردگی و پیشنهادهایی که بعد از انقضاء مدت فراخوان واصل می شود ترتیب اثر داده نخواهد شد.
 - ۱۸. به پیشنهاداتی که برخلاف دستورالعمل مناقصه تهیه شده یا در بسته بندی آن رعایت دستورالعمل نشده باشد ترتیب اثر داده نخواهد شد.
 - ۱۹. هرگاه وقوف حاصل شودکه پیشنهاد دهندگان تبانی کرده باشند بنا به تشخیص دستگاه برگزاری مناقصه ، مناقصه ابطال خواهد شد.

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.۲. در صورتی که برنده مناقصه از تسلیم تضمین انجام تعهدات یا انجام معامله با شرایط مندرج در اسناد مناقصه یا انعقاد قرارداد امتناع ورزد، سپرده شرکت در مناقصه وی بدون انجام تشریفات قانونی ضبط و برداشت خواهد شد و بنا بر تشخیص کمیسیون معاملات با برنده دوم، معامله انجام می شود و سپرده شرکت در مناقصه برنده دوم نیز در صورتی که از تسلیم تضمین انجام تعهدات و انجام معامله با شرایط مندرج در اسناد مناقصه یا انعقاد قرارداد امتناع ورزد، بدون انجام تشریفات قانونی ضبط و برداشت خواهد شد. ضمناً قبل از انعقاد قرارداد و تسلیم ضمانت انجام تعهدات از طرف برنده مناقصه، یا اتمام مدت اعتبار پیشنهادها، سپرده شرکت در مناقصه برنده دوم مسترد نخواهد شد .

- ۲۱. بدیهی است در مرحله اجرای پیمان مربوطه ، هیچ گونه عذری دال بر عدم اطلاع از شرایط و مقتضیات انجام کار از سوی برنده مناقصه، مسموع و پذیرفته نخواهـد بود.
 - ۲۲. نظارت بر حسن اجرای موضوع مناقصه به عهده معاونت مهندسی شرکت پتروشیمی نخل آسماری خواهد بود.
 - ۱. پیمانکاران می توانند جهت هرگونه سوال و رفع ابهام در خصوص مناقصه با نشانی الکترونیکی <u>Tender@NAPC.ir</u> مکاتبه نمایند.

نام و نام خانوادگی و امضای مجاز تعهد آور و مهر پیشنهاد دهنده:	نام و امضای دستاه منافضه فرار:
	شرکت پتروشیمی نخل آسماری

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شرایط تکمیل و ارسال اسناد مناقصه

۱. پیشنهاد باید در پاکات" الف " ، " ب "و " ج "بصورت مجزا و لاک و مهر شده بشرح زیر تهیه و جمعاً در پاکت سر بسته دیگری
 گذاشته و لاک و مهر گردد و روی پاکت نوشته شود:

پیشنهاد مناقصه عمومی تک مرحله ایی شماره ۴۰۲/۰۶

موضوع مناقصه: خريد يك دستگاه منبع تغذيه بدون وقفه(UPS) وفق مشخصات فني پيوست

نشانی پیشنهاد دهنده:

تاریخ تسلیم پیشنهاد:

۲. کلیه صفحات باید توسط پیشنهاد دهنده امضاء شده درپاکات دربسته ولاک و مهرشده فوق الذکر حاوی پاکت های ("الف" و "ب "و" ج") تا ساعت ۱۵:۳۰ روز مورخ ۱۴۰۲/۰۴/۲۰ به دبیرخانه شرکت پتروشیمی نخل آسماری به آدرس " تهران ، میدان شیخ بهایی خیابان سئول ،نرسیده به تقاطع رشید یاسمی ، کوچه چهارم ، پلاک ۱ طبقه سوم ، واحد دبیرخانه و بصورت دستی تحویل و اخذ رسید یا ارسال توسط پست سفارشی دو قبضه بطوریکه قبل از پایان مهلت تحویل اسناد ، پاکات فوق الذکر به مناقصه گزار برسد.

۳. پاکت" الف "باید محتوی ضمانتنامه شرکت در مناقصه (طبق بند ۸ دستورالعمل شرکت در مناقصه)

۴. پاکت" ب " باید محتوی مدارک زیر باشد

- اسناد مناقصه و همچنین مشخصات فنی مهر و امضاء شده توسط شرکت کننده در مناقصه .
- اساسنامه و اظهار نامه ثبتی شرکت، تصویر آگهی تاسیس در روزنامه رسمی با آگهی آخرین تغییرات شرکت حاوی معرفی صاحبان امضاء های مجاز (اشخاص حقوقی) وکپی شناسنامه و کارت ملی (اشخاص حقیقی).

تبصره : كليه صفحات پيش نويس پيمان و مناقصه و ... بايستى توسط پيشنهاد دهنده دال بر رويت آنها مهر و امضاء گردد.

۵. پاکت " ج " باید محتوی مدارک زیر باشد:

- فرم تكميل شده پيشنهاد قيمت.
- قیمت پیشنهادی باید بصورت رقم ناخالص و با در نظر گرفتن کلیه کسورات قانونی ، بیمه نامه ها وحمل و تخلیه ...
 باشد. (کلیه کسورات به عهده پیمانکار می باشد).

نام و امضاى دستگاه مناقصه گزار: نام و نام خانوادگى و امضاى مجاز تعهد آور و مهر پیشنهاد دهنده: شرکت پتروشیمى نخل آسمارى شرکت پتروشیمى نخل آسمارى

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برك ييشنهاد قيمت

امضاء کننده زیر پس از بررسی و آگاهی کامل و پذیرش تعهد اجرا و مسئولیت در مورد مطالب و مندرجات اسناد شرکت در مناقصه ، بطور کلی تمامی مدارک و اسناد مناقصه دو مرحله ای (شماره ۴۰۲/۰۶) شرکت پتروشیمی نخل آسماری با موضوع "خرید یک دستگاه منبع تغدیه بدون وقفه(UPS) به همراه متعلقات و باطری وفق مشخصات فنی پیوست " را پس از بازدید کامل از جمیع شرایط و عوامل موجود از لحاظ انجام کارهای مورد مناقصه ، پیشنهاد می نمایم که:

محل تحویل کالا سایت شرکت پتروشیمی نخل آسماری واقع در منطقه ویژه اقتصادی پتروشیمی بوده و پرداخت تمامی هزینه های حمل به عهده پیمانکار می باشد.

تبصره ۱: قیمتهای پیشنهادی باید بصورت رقم ناخالص و بادر نظر گرفتن کلیه کسورات قانونی ، بیمه نامه ها و هزینه های حمل و نقل، حقوق و دستمزد و غیره ... باشد.(کلیه کسورات به عهده پیمانکار می باشد)

تبصره ۲: مبلغ پیشنهادی بدون مالیات بر ارزش افزوده باشد که در صورت مشمول شدن پیمان، بصورت مجزا توسط کارفرما پرداخت می گردد.

تبصره ۳: فهرست تامین کنندگان و سازندگان مجاز، همان فهرست سازندگان و تامین کنندگان داخلی و خارجی مورد تایید صنایع ملی پتروشیمی ایران و شرکت ملی نفت می باشد و در صورت پیشنهاد تجهیز خارجی مسسئولیت ثبت سفارش و ورود و کلیه هزینه ها و عوارض گمرکی به عهده پیشنهاد دهنده (فروشنده) می باشد.

- ١. چنانچه اين پيشنهاد مورد قبول قرار گيرد و به عنوان برنده مناقصه انتخاب شوم تعهد مي نمايم كه:
- الف : اسناد و مدارک پیمان را بر اساس مراتب مندرج در اسناد و مدارک مناقصه امضاء نموده و همراه تضمین انجام تعهدات (۵ درصد مبلغ پیشنهادی بصورت ضمانتنامه بانکی) حداکثر ظرف مدت ۷ روز تقویمی از تاریخ ابلاغ بعنوان برنده مناقصه تسلیم نمایم .
- ب : ظرف مدت مقرر در پیمان ، نیروی انسانی و ماشین آلات لازم را در محل کار مستقر ساخته و شروع به کار نمایم و کلیه کارهای موضوع پیمان را در مدت مندرج در اسناد و مدارک مناقصه و پیمان باتمام رسانم.
 - تائید می نمایم که کلیه ضمائم اسناد و مدارک مناقصه جزء لاینفک این پیشنهاد محسوب می شود.
 - اطلاع کامل دارم که دستگاه مناقصه گزار الزامی برای واگذاری کار به هر یک از پیشنهادات ندارد.
 - ۴. مهلت اعتبار این پیشنهاد قیمت ، از زمان بازگشایی یاکت های مالی یکماه می باشد.
- م. تحت عنوان تضمین شرکت در مناقصه و به منظور تعهد به امضاء و مبادله پیمان و تسلیم تضمین اجرای تعهد ، تضمین موضوع بند ۸ دستورالعمل شرکت
 در مناقصه را به نفع کارفرما در پاکت "الف" تقدیم داشته ام .
- ۰۶ نسبت به امکان تامین افراد و سرویسهای لازم برای اجرای کار اطمینان حاصل نموده و همچنین میزان دستمزدها را در قیمت مذکور از هر جهت منظور نموده ام.
- در صورتیکه پیشنهاد این شرکت مورد قبول واقع شود مادام که سند پیمان به امضاء طرفین نرسیده است پیشنهاد حاضر و اعلام قبولی آن از طرف کارفره ا
 در حکم پیمان معتبر تلقی خواهد شد.

نام شركت / شخص پیشنهاد دهنده:
نام و سمت صاحبان مجاز و تعهد آور(برای اشخاص حقوقی) پیشنهاد دهنده:
آدرس شرکت /شخص پیشنهاد دهنده:

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قرارداد خرید

خرید یک دستگاه منبع تغذیه بدون وقفه (UPS) به همراه متعلقات و باطری

خریدار: شرکت پتروشیمی نخل آسماری

فروشنده:

شماره: –

تاریخ: ۱٤٠٢/....

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بسمه تعالي

ماده ۱) طرفین قرارداد

ماده ۲) موضوع قرارداد

عبارت است خرید یک دستگاه منبع تغذیه بدون وقفه(UPS) به همراه متعلقات و باطری وفق مشخصات فنی پیوست .

ماده ۳) زمان نافذ شدن و مدت قرارداد

این قرارداد پس از امضاء آن توسط طرفین و واریز پیش پرداخت توسط خریدار نافذ و لازم الاجراء می باشد .

فروشنده مکلف است تا حداکثر ۶۰ روز تقویمی پس از زمان نافذ شدن قرارداد کالا های خریداری شده را تحویل نماید.

تبصره ۱: فروشنده موظف است تضامین پیش پرداخت را حداکثر ۵ روز پس از امضاء قرارداد به خریدار ارائه نماید و چنانچه در این مدت فروشنده تضامین مذکور را به خریدار تحویل ننماید، خریدار حق فسخ قرارداد را بدون انجام هرگونه تشریفات اداری یا قضایی خواهد داشت و می تواند قرارداد را به فروشنده دیگری واگذار نماید. در این صورت فروشنده حق هیچگونه اعتراض و یا ادعایی نخواهد داشت.

تبصره ۲: خریدار پس از دریافت تضامین پیش پرداخت ۵ روز مهلت دارد نسبت به پرداخت مبلغ پیش پرداخت در وجه شرکت فروشنده (شماره حساب نزد بانک شعبه کداقدام نماید .در غیر این صورت فروشنده نیز حق فسخ قرارداد را بدون انجام هرگونه تشریفات اداری یا قضایی خواهد داشت و خریدار می بایست نسبت به استرداد تضامین اقدام نماید .

ماده ٤) مبلغ كل قرارداد

مبلیغ کل قرارداد با توجه به اسناد فوق الذکر برابر "...................... ریال " میباشد که بنحو مذکور در ماده ۵ در موضوع این قرارداد به فروشنده پرداخت خواهد شد و فروشنده متعهد است بهای مورد معامله را تحت هیچ شرایطی افزایش نداده و به هیچ عنوان تقاضای وجه اضافه بر مبلغ مذکور در این ماده را ننماید مگر در صورتیکه تغییری در حدود و مشخصات موضوع قرارداد(با توافق قبلی) بوجود بیاید.

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تبصره ۳ : چنانچه قرارداد حاضر مشمول پرداخت موضوع مالیات بر ارزش افزوده باشد، این رقم بـر اسـاس قـوانین جـاری َ مشروط به ارائه گواهی نامه ارزش افزوده (توسط فروشنده) به مبلغ فوق اضافه می شود.

ماده ٥) نحوه پرداخت

میزان و روش پرداخت به فروشنده به شرح زیر میباشد:

۲۵ ٪ مبلغ قرارداد به عنوان پیش پرداخت در قبال دریافت ضمانت نامه بانکی به میزان ۱۰۰ درصد مبلغ مذکور(به عنوان تضمین پیش یرداخت)یرداخت خواهد شد.

الباقی پس از تحویل کالای موضوع قرارداد و صدور صورتحساب توسط فروشنده پرداخت میگردد .(فروشنده موظف است ۳ روز کاری قبل از بارگیری به خریدار زمان بار گیری را اعلام نماید).

پرداخت موضوع مالیات بر ارزش افزوده همزمان با پرداخت دوم انجام می شود.

تبصره ۴ : تضمین مربوط به پیش پرداخت همزمان با تحویل کامل و تنظیم صورتجلسه تحویل موقت ، قابل استرداد به فروشنده می باشد .

ماده ٦) تضمين انجام تعهد

فروشنده معادل ده درصد کل مبلغ قرارداد را به صورت ضمانتنامه بانکی به عنوان تضمین انجام تعهد همزمان با انعقاد قرارداد تسلیم خریدار نموده است .

تضمین انجام تعهد پس از تحویل کامل موضوع قرارداد و مشروط به تحویل تضمین دوره خدمات(موضوع ماده ۸) به خریدار به فروشنده مسترد می شود.

ماده ۷) محل تحویل موضوع قرارداد

محل تحویل کالای موضوع قرارداد در مجتمع پتروشیمی نخل آسماری (آدرس: ماهشهر، منطقه ویژه اقتصادی پتروشیمی، سایت ۳، مجتمع پتروشیمی نخل آسماری(شهید رسولی سابق) می باشد و تخلیه به عهده خریدار می باشد.

ماده ۸) دوره تضمین:

فروشنده ، کارایی و کیفیت و سلامت کالای موضوع قرارداد را برای مدت ۱۲ ماه از تاریخ تحویل موقت تضمین می نماید . چنانچه در طول مدت مذکور در این ماده معایب و نواقصی در کالای موضوع قرارداد مشاهده شود که ناشی از عدم رعایت مشخصات تعیین شده باشد و به طور کلی هرگونه عیب و نقصی که به عملکرد خریدار مرتبط نباشد ، فروشنده موظف است معایب و نواقص را به هزینه خود رفع نماید و در صورت عدم قابلیت تعمیر نسبت به تعویض کالا اقدام نماید .

خریدار به محض مشاهده معایب مراتب را کتباً به فروشنده ابلاغ و فروشنده مکلف است ظرف مدت ۵ روز از تاریخ ابلاغ اقدام لازم را به عمل آورد . در صورت خودداری فروشنده از انجام این تعهد ،خریدار می تواند راساً نسبت به رفع معایب نواقص اقدام نموده و کلیه

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هزینه ها و خسارت را به تشخیص خود از تضمین فروشنده و یا دیگر دارایی او استیفاء نماید و ارزیابی خریدار از هزینه ها و خسارالی ت قابل اعتراض است.

جهت تضمین در دوره گارانتی فروشنده موظف به ارائه سفته معادل ده درصد مبلغ قرارداد در زمان تحویل موضوع قرارداد میباشد.

ماده ۹) بازرسی و نظارت

خریدار در طول اجرای قرارداد یک نفر (شخص حقیقی و یا حقوقی) را به عنوان ناظر بر اجرای قرارداد به فروشنده معرفی نمـوده و نظارت بر اجرای کلیه تعهداتی که فروشنده طبق مفاد این قرارداد تقبل نموده است بر عهده وی قرار دارد .

خریدار مجاز به تغییر ناظر خود در طول اجرای قرارداد می باشد.

در صورتیکه به تشخیص ناظر در موقع بازرسی و تحویل ، کالای موضوع قرارداد طبق مشخصات مشروحه در قرارداد نباشد خریـدار می تواند از قبول آنها امتناع نموده ، اصلاح و یا تعویض آنها را از فروشنده بخواهد .

ماده ۱۰) تعهدات فروشنده و خریدار

تعهدات فروشنده

فروشنده متعهد میگردد کالاهای موضوع قرارداد را کاملاً سالم و مطابق بـا مشخصـات فنـی پیشـنهاد شـده تحویـل خریـدار نمایـد و فروشنده ، کارایی و کیفیت و سلامت کالای موضوع قرارداد را برای مدت ۱۲ ماه از تاریخ تحویل موقت تضمین می نماید.

فروشنده متعهد می گردد کلیه اقلام کالای مورد سفارش، کاملاً نو و استفاده نشده(غیر مستعمل) باشد.

فروشنده متعهد به انجام تست های کامل بر اساس مدرک پیوست می باشد .

فروشنده متعهد به بسته بندی ، بارگیری و تحویل صحیح و سالم کالای موضوع قرارداد در محل تحویل مشخص شده می باشد .

فروشنده متعهد است صورت کالا و گواهی مشخصات کیفی کالا و کلیه اسناد مربوط به کالای خریداری شده را به خریدار تحویل نماید.

تعهدات خريدار

خریدار متعهد میشود کالای موضوع قرارداد را حداکثر ۵ روز پس از اعلام فروشنده مبنی بر آمادگی برای تحویل کالا از ایشان تحویل بگیرد.

خریدار متعهد میگردد کلیه مبالغ مندرج در ماده ۵ قرارداد را به موقع پرداخت نماید .

ماده ۱۱) محرمانه بودن قرارداد

طرفین تعهد می نمایند که هیچ گونه اطلاعات و یا مدارک مربوط به این قرارداد را در اختیار اشخاص ثالث قرار ندهند. در صورت وقوع هر گونه تخلف از جانب طرفین ، طرف دیگر علاوه بر پیگیری از طریق مراجع ذیصلاح قانونی حق فسخ قرارداد و مطالبه خسارت به میزان مورد ادعای خود را خواهد داشت .

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ماده ۱۲) کسورات قانونی و هزینه های جانبی

با توجه به نوع قرارداد (خرید وفروش) مبلغ قرارداد مشمول کسر کسورات قانونی نمیگردد و خریدار از پرداخت-ها بـه فروشـنده تحت این عنوان مبلغی کسر نخواهد نمود.

کلیه هزینه های جانبی از قبیل هزینه های انجام بازرسی کالا که توسط خریدار انجام می شود تا پایان قرارداد به عهده خریدار است.

ماده ۱۳) عدم واگذاری موضوع قرارداد به غیر

فروشنده بدون دریافت اجازه کتبی خریدار حق واگذاری اجرای هیچ قسمت از موضوع قرارداد را جزاً یا کلاً به غیر ذدارد. اجازه خریدار نیز فروشنده را در قبال تعهدات و مسئولیت های قراردادی خویش نسبت به خریدار به هیچ وجه مبری نخواهد کرد. فروشنده در قبال هر گونه تقصیر و تخلف پیمانکاران ، سازندگان و فروشندگان فرعی (طرف قرارداد با وی) به همان ترتیبی که خود به موجب قرارداد مسئولیت دارد مسئول بوده و اشخاص مذکور نیز در قبال خسارت وارده به خریدار متضامناً با فروشنده مسئولیت خواهند داشت. فروشنده مکلف است در توافق خود با اشخاص مذکور این شرط را صراحتاً قید نماید.

ماده ۱٤)جريمه تاخير

هرگاه فروشنده و خریدار در تحویل و تسویه مبلغ موضوع قرارداد تاخیر نماید ، جریمه تاخیر به شرح زیر از وی دریافت می شود : الف) در صورت بروز تاخیر غیر مجاز با توجه به ماده ۳، در اجرای کارهای موضوع قرارداد برای هر روز تاخیر باید معادل نیم درصد ارزش کل قرارداد و تا سقف ۱۰ درصد مبلغ کل قرارداد توسط فروشنده خسارت تاخیر پرداخت گردد.

ب) هر گاه زمان تاخیر مشمول جریمه از ۳۰ روز تجاوز نماید ، خریدار حق دارد قرارداد را فسخ شده اعلام و علاوه بر ضبط تضمینات فروشنده کلیه خسارات وارده را نیز از وی مطالبه نماید .

ماده ۱۵) اطلاع فروشنده از کلیه خصوصیات و مشخصات قرارداد

فروشنده با امضاء قرارداد تائید می نماید که از مشخصات و خصوصیات موضوع قرارداد ،وضعیت بازار ، قیمت مواد اولیه و غیره اطلاع کامل داشته و در اجرای قرارداد نمی تواند به عذر عدم اطلاع معتذر گردد .

ماده ۱۱) افزایش یا کاهش کالای مورد قرارداد

خریدار می تواند تا ۲۵٪ مبلغ قرارداد را در طول مدت قرارداد وپس از تایید طرفین قرارداد افزایش و یا کاهش دهـد بـدون آنکـه در قیمتهای واحد قراردادی تغییری حاصل شود ولی زمان تحویل کالاهای اضافه شده بر اساس توافق طرفین خواهد بود.

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ماده ۱۷) قوه قاهره

در صورت وقوع حادثه غیر قابل پیش بینی که طرفین در وقوع آن دخالت نداشته اند و اجرای قرارداد غیر ممکن گردد هر یک از ... طرفین مکلف هستند ظرف مدت ۵ روز طرف دیگر را از وقوع حادثه مطلع نمایند و حداکثر تلاش خود را جهت رفع وضعیت قوه قاهره اعمال کنند .

چنانچه با وجود انقضاء مدت دو ماه از تاریخ وقوع قوه قاهره ، شروع مجدد قرارداد امکان پذیر نباشد هر یک از طرفین حق دارد قرارداد را خاتمه تلقی نموده و به طرف دیگر ابلاغ نماید . در این صورت فروشنده صرفاً مستحق دریافت هزینه کالای تحویل شده خواهد بود و چنانچه اضافه بر آن مبلغی دریافت نموده باشد متعهد به استرداد آن و انجام تسویه حساب می باشد .

در صورت رفع قوه قاهره قبل از دو ماه ، اجرای قرارداد از زمان توقف ادامه می یابد و مدت قوه قاهره بر مدت قرارداد افزوده می شود .

ماده ۱۸) عدم وجود واسطه

فروشنده تاکید می نماید که در این قرارداد واسطه ای وجود نداشته و حق دلالی یا کمیسیون و نظایر آن نپرداخته است. چنانچه خلاف این مطلب به نحوی از انحاء ثابت شود خریدار حق دارد قرارداد را فسخ و تضمینات فروشنده را ضبط نماید.

ماده ۱۹) فسخ قرارداد

خریدار می تواند در صورت تشخیص ناظر مبنی بر نقض تمام یا قسمتی از مفاد قرارداد یا هر گونه تخلف از شرایط صریح یا ضمنی پس از اخطار کتبی به فروشنده قرارداد را فسخ نموده و مراتب را کتباً به اطلاع وی برساند . همین حق در صورت ناتوانی فروشنده از انجام تعهدات خود ، ورشکستگی فروشنده ، مصادره اموال یا تصویب انحلال شرکت فروشنده برای خریدار محفوظ است در صورت فسخ قرارداد ، خریدار بایستی مبالغی را که مطابق این قرارداد بابت کالای تحویل شده به فروشنده تعلق می گیرد (مشروط بر اینکه کالای مذکور بدون عیب و نقص باشد) به او پرداخت نماید . در صورتی که خریدار به تعهدات خود عمل نکند و به اخطارهای کتبی فروشنده توجه ننماید فروشنده نیز میتواند نسبت به فسخ یکطرفه اقدام نماید.

ماده ۲۰) بسته بندی

کالا باید قبل از حمل طبق توافق طرفین توسط فروشنده بسته بندی شود . به نحوی که باز کردن و نصب امکانپذیر باشد .

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ماده ۲۱) اسناد قرارداد

P.C اسناد و مدارک زیر جزء لاینفک این قرارداد می باشد . هرگاه بین بعضی از اسناد تعارض وجود داشته باشد از نظر اولویت بـه ترتیب

زير خواهد بود:

الف: متن قرارداد

ب: جدول قيمت و مشخصات فني

تبصره ۵: صورت جلسات، الحاقیه و هر نوع سند دیگری که در مدت قرارداد و در چهارچوب ومفاد آن به امضاء طرفین برسد بعنوان اسناد قرارداد می باشند.

ماده ۲۲) قوانین حاکم بر قرارداد

قوانین تجارت بر قرارداد حاضر حاکم میباشد ولی در صورتیکه برای حل اختلافات حکمیت به ارگانهای ذیربط دیگر ارجاع گردد طبعاً از قوانین جمهوری اسلامی ایران تبعیت میشود.

ماده ۲۳) زبان قرارداد

زبان قرارداد فارسی بوده و کلیه مکاتبات و اطلاعیه هایی که توسط خریدار و فروشنده در رابطه با این قرارداد صورت می گیرد بایستی به زبان فارسی باشد.

ماده ۲٤) حل اختلاف

در صورت بروز اختلاف ناشی از نحوه اجرای قرارداد و عدم رعایت تعهدات از طرف خریدار یا فروشنده ابتدا موضوع از طریق مذاکره و گفتگو مورد بررسی قرار گرفته و در صورت عدم توافق حکم مراجع قضایی برای طرفین معتبر و قابل اجراست.

ماده ۲۵) اقامتگاه طرفین قرارداد

شرکت پتروشیمی نخل آسماری : تهران ، میدان شیخ بهایی ، خیابان سئول ،نرسیده به چهار راه رشید یاسمی ، بن بست چهار ، پلاک ۱ ، طبقه ۳ -کد پستی ۱۹۹۵۸۵۵۵۹۵

پست الکترونیک: <u>info@napc.ir</u> تلفن: ۱۲۱-۸۸۶۲۱۶۹۱ فکس: ۰۲۱-۸۸۰۶۸۶۷۱

فروشنده:

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P.C تبصره ۶: کلیه مکاتبات و هر گونه اخطار و یا اعلام کتبی از طرف هر یک از متعاقدین به طرف دیگر بـه آدرس پسـتی وفکـس و یـا

ایمیل بالا ارسال می شود و طرفین قرارداد موظفند در صورت تغییر آدرس مراتب را بلافاصله به یکدیگر اطلاع دهنـد ، در غیـر ایـن

صورت هرگونه ارسال مكاتبات به نشاني فوق ابلاغ شده محسوب مي گردد .

ماده ۲۱) تنظیم و امضای قرارداد

این قرارداد در ۲۶ ماده و ۶ تبصره و در ۲ نسخه متحدالمتن که همگی حکم واحد را داشته و دارای اعتبار یکسان است تنظیم و به امضای طرفین رسیده است.

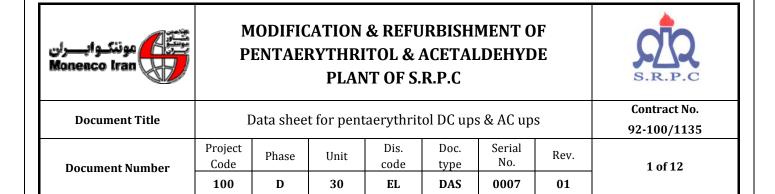
ِشنده	فرو	خريدار							
	شركت	شركت پتروشيمي نخل آسماري							
		محمد رضا جويجري	علیرضا برزین مدیر عامل و نائب ریس هیات						
عضو هيات مديره	مدیر عامل	رئيس هيات مديره	مدیر عامل و نائب ریس هیات						

مهر و امضاء مناقصه گر



مشخصات فني

مهر و امضاء مناقصه گر



DATA SHEET FOR PENTAERYTHRITOL DC UPS & AC UPS

03					
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01	July.15	DESIGN PROGRESS	SAF	JRF/KMH	FMI
00	march.15	Issued for Approval	SAF	JRF/KMH	FMI
Rev.	Date Of Issue	Description	Prepared	Checked	Approved





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		Contract No.
Document Title	Data sheet for pentaerythritol DC ups & AC ups	92-100/1135

Document Number	Project Code	Phase	Unit	Dis. code	Doc. type	Serial No.	Rev.	
	100	D	30	EL	DAS	0007	01	

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References and Standards

PENTAERYTHRITOL 220 VAC UPS SIZING 100-D-30-EL-CAL-0009

PENTAERYTHRITOL 110 VDC UPS SIZING 100-D-30-EL-CAL-0008

DC & AC UPS TECHNICAL SPECIFICATIONS 100-B-00-EL-SPC-0011

PENTAERYTHRITOL 110 VDC UPS SLD 100-D-30-EL-SLD-0016

PENTAERYTHRITOL 220 VAC UPS SLD 100-D-30-EL-SLD-0017





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Rev.	Item	Criteria	Unit	Design Data	Vendor Data	Remark
0	A	Supplier Name				Acc. To Vendor List
0	В	Documents and Standards				
0	B.1	Applicable Standard		IEC/ IEEE/ ANSI/ BS/ NEMA		
0	B.2	Documents		See Tender Document		
0	С	Site Condition				
0	C.1	Ambient Air Temperature (Max./ Min.)	° C	+55 / -3.5		
0	C.2	Altitude above sea level	m	Sea Level		
0	C.3	Design Relative Humidity (Max/Min)	%	100% / 3%		
0	D	Network and Voltage Levels				
0	D.1	Service Voltage	V	400/230		
0	D.2	Voltage Variation	%	5		
0	D.3	Frequency	Hz	50		
0	D.4	Frequency Variation	%	2		
0	D.5	Earthing Connection		TN-S/ Solidly Earthed		
0	D.6	DC-UPS Voltage Level	V	110VDC		
0	D.7	AC-UPS Voltage Level	V	220VAC		
0	D.8	Auxiliary Voltage (Heaters, lightings and Fans)	V	220 AC		
0	E	System Output				
0	E.1	110VDC:				
0	E.1.1	Voltage Level	V	110		





Document Title

Data sheet for pentaerythritol DC ups & AC ups

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Rev.	Item	Criteria	Unit	Design Data	Vendor Data	Remark
0	E.1.2	Voltage Variation	%	-10/+10%		
0	E.1.3	Voltage Ripple	%	1% RMS with Battery		
0	E.1.4	Earthing System (Earthed/ Unearthed)		Unearthed		
0	E.1.5	Rated Power	KW	According to SLD		
0	E.2	220VAC:				
0	E.2.1	Voltage Level	V	220		
0	E.2.2	Voltage Variation	%	-10/+10%		
0	E.2.3	Frequency	Hz	50		
0	E.2.4	Frequency Variation	%	+/- 5 %		
0	E.2.5	Earthing System (Earthed/ Unearthed)		Earthed		
0	E.2.6	Rated Power	KVA	According to SLD		
0	E.2.7	Total Harmonic Distortion	%	<5% for all operating duties		
0	F	General				
0	F.1	Cubicle Design:		Front		
0	F.2	Free-Standing		Yes		
0	F.3	Access (Front/ Rear)		Front		
0	F.4	Cable Entry (Top/ Bottom)	-,	Bottom		
0	F.5	Overall dimensions of Charger or Inverter:	L x W x H			
0	F.5.1	110VDC	mm	by vendor		
0	F.5.2	220VAC	mm	by vendor		
0	F.6	Overall Weight:				
0	F.6.1	110VDC	Kg	by vendor		
0	F.6.2	220VAC	Kg	by vendor		
0	F.7.1	Degree of Protection (Charger or Inverter)		IP 31		
0	F.7.2	Degree of Protection (Distribution Panels)		IP 41		
0	F.8	Color Code		RAL 7035		





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Rev.	Item	Criteria	Unit	Design Data	Vendor Data	Remark
0	F.9	F.9 Painting Specification		Manufacturer's Standard		The detail shall be submitted in offer
0	F.10	Noise Level at Full Load		<= 68 dBA at 1m		
0	F.11	Cooling (Natural/ Forced)		Forced		
0	F.12	Fans Redundancy (Y/N)		Yes		
0	F.13	Anti-Condensation Heaters (Y/N)		Yes / 220V 50Hz		
0	F.14	Configuration		According to Related SLD		
0	F.15	Wiring Mini Cross Section:	•			
0	F.15.1	Control Wires	mm2	1.5		
0	F.15.2	Power Wires	mm2	4		
0	F.15.3	Current Transformers Wires	mm2	2.5		
0	F.16	Busbar Size	•			
0	F.16.1	110VDC Busbar	mm	by vendor		
0	F.16.2	220VAC Busbar	mm	by vendor		
0	F.16.3	Busbars Connection		Nickel Plated		
0	G	Battery Charger for DC-UPS:				
0	G.1	Manufacturer				
0	G.2	Country				
0	G.3	Configuration		As per SLD		
0	G.4	Capacity:				
01	G4.1	Rated for 110 VDC (DC-UPS)	% / A	2 x 100% / 125A		
0	G4.2	Rated for 220 VDC (AC-UPS)	% / A	2 x 100% / 135A		
0	G.5	Spare Capacity	%	20		
0	G.6	6 pulses/ 12 Pulse		by vendor		
0	G.7	Modes of Operation:				
0	G.7.1	Floating Charge	•	Yes		
0	G.7.2	Boost Charge		Yes		





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0	G.7.3	Equalizing Charge		Yes		
0	G.7.4	Trickle Charge		No		
0	G.8	Rated 1 hour overload capacity after 10 hours operation at rated load	%	120		
0	G.9	Voltage Regulation:				
0	G.9.1	Inherent voltage regulation	-	By vendor		
0	G.9.2	From no load to rated load		By vendor		
0	G.10	Rated Power (Floating Mode)				
0	G.10.1	with Fan		By vendor		
0	G.10.2	without Fan		By vendor		
0	G.11	Maximum Absorbed Power		By vendor		
0	G.12	Input Peak Current		By vendor		
0	G.13	Rectifier Output Rated Current		By vendor		
0	G.14	Limitation of Rect. Current		Yes		
0	G.15	Rectifier Output Voltage/ Voltage Variation:				
0	G.15.1	Floating Mode		By vendor		
0	G.15.2	Boost Mode		By vendor		
0	G.16	Ripple Voltage with Battery	%	<= 1		
0	G.17	Ripple Voltage without Battery		By vendor		
0	G.18	Current Harmonic Rejection		if required		
0	G.19	Radio Interfere, Suppression		Yes		
0	G.20	Automatic Boost Operation		Yes		
0	G.21	Rectifier Efficiency		By vendor		
0	G.22	Rectifier Power Factor		By vendor		
0	G.23	Dropping Diodes No. of Diodes/ Contactor		Yes / By vendor		
0	G.24	Rectifier Control				
0	G.24.1	Rectifier On/Off		Yes		
0	G.24.2	Floating / Boost Operation Selection		Yes		





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0	G.24.3	Boost Operation Duration Timer		Yes		
0	G.24.4	DC Output Voltage Adjustment		Yes		
0	G.24.5	Current Limitation Adjustment	•	Yes		
0	G.25	Rectifier Measurement (Class 1 Mini)				
0	G.25.1	DC Voltmeter		Yes		
0	G.25.2	Battery Current Ammeter, Zero at mid scale.		Yes		
0	G.25.3	Rectifier Output Current		Yes		
0	G.25.4	AC Mains Ammeter		No		
0	G.25.5	AC Mains Voltmeter		No		
0	G.26	Rectifier Signaling and Indication:	0			
0	G.26.1	Mains On		Yes		
0	G.26.2	Rectifier Running		Yes		
0	G.26.3	Operational Mode (Floating/ Boost)		Yes		
0	G.26.4	Manual/ Automatic Operation		Yes		
0	G.26.5	Operation on Battery		Yes		
0	G.26.6	Imminent Discharged Battery		Yes		
0	G.26.7	AC Mains Undervoltage (Loss of Incoming Supply)		Yes		
0	G.26.8	Rectifier Failure		Yes		
0	G.26.9	DC Undervoltage		Yes		
0	G.26.10	Rectifier Over current		Yes		
0	G.26.11	Battery Over current		Yes		
0	G.26.12	DC Control Circuit Fault		Yes		
0	G.26.13	Main DC Fuse Failure Alarm		Yes		
0	G.26.14	Cooling Fan Failure		Yes		
0	G.26.15	Signaling Type (Lamps, LEDs Display Unit)		LED,s Display Unit		
0	G.26.16	Signalization Colors On/Off/Fault		Red/ Green/ Yellow		
0	G.26.17	Lamp Test (Y/N)		Yes		





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0	G.26.18	Fault Reset Push Buttons (Y/N)		Yes (when auto reset is N.A.)		
0	G.27	Soft Start (Y/N)		Yes		
0	н	Inverter				
0	H.1	Technology (PWM,)		By vendor		
0	H.2	Inverter Sizing:	*			
0	H.2.1	Inverter QTY/ Sizing (100%,50%,)		2 /100% / 17 KVA		
0	H.2.2	Spare Capacity	%	20		
0	H.3	Operating Mode:		Stand Alone and Backup		
0	H.4	Inverter Rated Power:				
0	H.4.1	With Fan		By Vendor		
0	H.4.2	Without Fan		By Vendor		
0	H.5	Output Voltage Regulation:				
0	H.5.1	Steady State	%	+/- 1% (at power factor=1)		
0	H.5.2	Transient 50, 100% Load Change	%	+/- 10%		
0	H.6	Voltage Recovery Time		< 50 ms (95% rated voltage)		
0	H.7	Output Voltage Adjustment	%	+/- 5%		
0	H.8	Frequency Regulation	Hz	48.5~51.5		
0	H.9	Frequency Adjustment		By Vendor		
0	H.10	Output Voltage Harmonics:				
0	H.10.1	With linear Load	%	less than 2		
0	H.10.2	With non-linear Load (70% non-linear Load)	%	less than 5		
0	H.11	Minimum Acceptance Crest Factor		By Vendor		
0	H.12	Semi-conductors Sizing		By Vendor		
0	H.13	Maximum Temperature at 125% Rating	°C	By Vendor		
0	H.14	Maximum Current at 120% Rating	А	By Vendor		





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0	H.15	Inverter Current Limitation (10 min, 1 min, 10 S)	%	125/150/200		
0	H.16	Allowable Over-load		10 min 125%, 1 min 150%		
0	H.17	Efficiency		By Vendor		
0	H.18	Inverter Control:	•			
0	H.18.1	Inverter On/ Off		local		
0	H.18.2	AC Output Voltage Adjustment		local		
0	H.18.3	Frequency Adjustment		local		
0	H.18.4	Load Transfer Initiating		local		
0	H.19	Inverter Measurement (Class 1 Mini)				
0	H.19.1	Output Inverter Voltmeter		Yes		
0	H.19.2	Output Inverter Current		Yes		
0	H.19.3	Output Inverter Frequency Meter		Yes		
0	H.19.4	Output Power		Yes		
0	H.20	Inverter Signaling				
0	H.20.1	Supply On		local		
0	H.20.2	Running		local		
0	H.20.3	Load on Inverter/ By pass		Local/ Remote		
0	H.20.4	AC-UPS General Fault		Local/ Remote		
0	H.20.5	Inverter Failure		Local/ Remote		
0	H.20.6	Output Voltage Deviation		Local		
0	H.20.7	Output Over-load		local		
0	H.20.8	Synchronizing Fault		local		
0	H.20.9	Operation on Emergency Transformer		local		
0	H.20.10	Emergency Supply Fault		local		
0	H.20.11	Cooling Fan Failure		Local/ Remote		
0	H.21	Inverter's Manufacturer		By vendor		
0	H.22	Country		By vendor		





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0	J	Emergency Bypass Transformer				
0	J.1	Manufacturer		By Vendor		
0	J.2	Type		By Vendor		
0	J.3	Transformer sizing:		By volidor		
0	J.3.1	Quantity/ Capacity	,,	1 x 100%		
0	J.3.3	Spare Capacity	%	20		
0	J.4		/0	20		
		Transformer power:	12) / A	4.7		
0	J.4.1	Rated Power	KVA	17		
0	J.5	Rated Primary Voltage Rated Secondary Voltage at Full	V	400 +/- 2*2.5%		
0	J.6	Load	V	220 +/- 1%		
0	J.7	Rated Frequency	Hz	50 +/- 5%		
0	J.8	Number of Phases		2 phase on Primary/ 1 Phase on Secondary		
0	J.9	Connection Symbol and Vector Group		By Vendor		
0	J.10	Primary/ Secondary Galvanic Isolation		Yes		
0	J.11	Type of Insulation/ Insulation Class		Dry / Class H		
0	J.12	Type of Cooling		AF		
0	J.13	Off Circuit Tap-Changer		Yes		
0	J.14	Tapping Point	%	+/-5%, +/-2.5%		
0	J.15	Peak Current		By Vendor		
0	J.16	No-Load Losses		By Vendor		
0	J.17	Total Losses		By Vendor		
0	J.18	Short Circuit Impedance at 75°C		By Vendor		
0	J.19	Type Of Enclosure		Metallic Panel		
0	J.20	Transformer Panel cooling		Forced		
0	J.21	Fan Redundancy		Yes		





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0	K	Distribution Board				
0	K.1	Quantity of Boards	· ·	According to SLDs		
0	K.2	Incoming Breaker QTY/ Type Per Board		According to SLDs		
0	K.3	Out goers Type (Circuit Breaker/ Switch-fuses)		MCCB/MCB		
0	K.4	Number and Type of CB,s		According to SLDs		
0	K.5	Out goers with Status Contacts	· ·	Yes		
0	K.6	Equipped Spare	%	15		
0	K.7	Out goers Indication		According to SLDs		
0	K.8	Metering and Protection		According to SLDs		
0	L	Inspection and Test		According to Specification		





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DATA SHEET FOR PENTAERYTHRITOL **BATTERY BACKUP**

03					
02					
01	July.15	DESIGN PROGRESS	SAF	JRF/KMH	FMI
00	MARCH.15	Issued for Approval	SAF	JRF/KMH	FMI
Rev.	Date Of Issue	Description	Prepared	Checked	Approved





Document Title	Data Sheet For Pentaerythritol Battery Backup	Contract No.
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References and Standards

PENTAERYTHRITOL 220 VAC UPS SIZING 100-D-30-EL-CAL-0009

PENTAERYTHRITOL 110 VDC UPS SIZING 100-D-30-EL-CAL-0008

DC & AC UPS TECHNICAL SPECIFICATIONS 100-B-00-EL-SPC-0011

PENTAERYTHRITOL 110 VDC UPS SLD 100-D-30-EL-SLD-0016

PENTAERYTHRITOL 220 VAC UPS SLD 100-D-30-EL-SLD-0017





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Rev.	ltem	Criteria	Unit	Design Data	Vendor Data	Remark
0	Α	Supplier Name				Acc. To Vendor List
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0	В	Documents and Standards				
0	B.1	Applicable Standard		IPS/IEC/ IEEE/ ANSI/ BS/ NEMA		
				26, 112.117.		
0	С	Site Condition	·,			
0	C.1	Ambient Air Temperature (Max./ Min.)	۰C	+55 / -3.5		
0	C.2	Altitude above sea level	m	Sea Level		
0	C.3	Design Relative Humidity (Max/Min)	%	100% / 3%		
0	D	Battery Bank for DC-UPS	,			0-1-1
0	D.1	Manufacturer		By vendor		Catalogue shall be submitted with offer
0	D.2	Country		By vendor		
0	D.3	Lead Acid / Nickel-Cadmium		Nickel Cadmium		
0	D.4	Standard/ Long Life		Standard		
0	D.5	Guarantee Life		By vendor		
0	D.6	Rated Voltage	V	110 VDC		
0	D.6.1	Battery Sizing:				
0	D.6.2	Battery QTY/ Sizing (100%,50%,)	%	2 x 50% of full load		
0	D.6.3	Spare Capacity	%	20		
01	D.6.4	Rated for 110 VDC	АН	88 Cell - 277Ah		
0	D.8	Voltage Per Cell:				
0	D.8.1	On Floating Mode	V	By vendor		
0	D.8.2	On Boost Mode	V	By vendor		
0	D.8.3	at End of Discharge at 25 °C	V	By vendor		
0	D.9	Autonomy	min	120		





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0	D.10	Short Circuit Current With Battery Fully Charged:		By vendor		
0	D.11	Charging Time in Floating Mode after Full Discharge:				
0	D.11.1	Up to 80% Capacity	Hr	By vendor		
0	D.11.2	Up to 100% Capacity	Hr	By vendor		
0	D.12	Charging Time in Boost Mode after Full Discharge:				
0	D.12.1	Up to 80% Capacity	Hr	8		
0	D.12.2	Up to 100% Capacity	Hr	12		
0	D.13	Battery Hydrogen Release Flow:				
0	D.13.1	on Boost Charge	,	By vendor		
0	D.13.2	on Float Charge		By vendor		
0	D.14	Delivery Conditions:				
0	D.14.1	Cells Delivered Filled / Dry		By vendor		
0	D.14.2	Electrolyte Delivered (Y/N)		By vendor		
0	D.15	Duration of Battery First Charge		By vendor		
0	D.16	Battery Installation Location:	,	Battery Room		
0	D.17	Battery Mounting Type:		on stand		
0	D.18	Dimensions/ Weight Per Cell:				
0	D.19	Length/ Depth/ Height	mm	By vendor		
0	D.20	Weight with Electrolyte	Kg	By vendor		
0	D.21	Volume of Electrolyte	Litre	By vendor	0	
0	D.22	Overall Length/ Depth/ Height:	mm	By vendor		
0	D.23	Overall Weight	Kg	By vendor		
0	D.24	Required Ventilation Flow:		By vendor		
0	D.25	Metering and Protection		According to SLDs		
0	D.26	Accessories:				
0	D.26.1	density-meter		Yes		





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Project Code	Phase	Unit	Dis. code	Doc.	Serial No.	Rev.	
Code	Code		coue	type	110.		
100	D	30	EL	DAS	8000	01	

Rev.	Item	Criteria	Unit	Design Data	Vendor Data	Remark
0	D.26.2	Portable Volt-meter		Yes		
0	D.26.3	Thermo-meter		Yes		
0	D.26.4	Nameplates		Yes		
0	D.26.5	Batteries Isolating Breaker:		Yes (Fuse Switch)		
0	ı	Battery Bank for AC-UPS				
0	0 I.1 Manufacturer			By vendor		Catalogue shall be submitted with offer
0	1.2	Country		By vendor		
0	1.3	Lead Acid / Nickel-Cadmium		Nickel Cadmium		
0	1.4	Standard/ Long Life		Standard		
0	1.5	Guarantee Life		By vendor		
0	1.6	Rated Voltage	V	220 VDC		
0	1.6.1	Battery Sizing:				
0	1.6.2	Battery QTY/ Sizing (100%,50%,)	%	2 x 50% of full load		
0	1.6.3	Spare Capacity	%	20		
0	1.6.4	Rated for 110 VDC	АН	176 Cell - 277Ah		
0	1.8	Voltage Per Cell:				
0	1.8.1	On Floating Mode	V	By vendor		
0	1.8.2	On Boost Mode	V	By vendor		
0	1.8.3	at End of Discharge at 25 °C	V	By vendor		
0	1.9	Autonomy	min	120		
0	I.10	Short Circuit Current With Battery Fully Charged:		By vendor		
0	l.11	Charging Time in Floating Mode after Full Discharge:				
0	I.11.1	Up to 80% Capacity	Hr	By vendor		
0	I.11.2	Up to 100% Capacity	Hr	By vendor		
0	l.12	Charging Time in Boost Mode after Full Discharge:				
0	I.12.1	Up to 80% Capacity	Hr	8		





Document Title

Data Sheet For Pentaerythritol Battery Backup

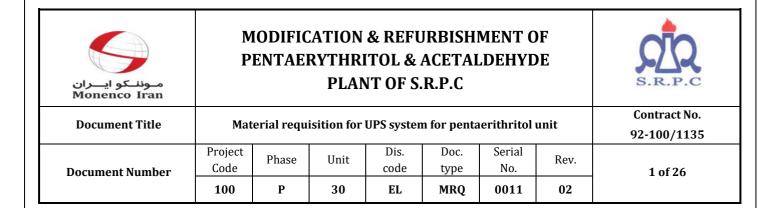
Contract No. 92-100/1135

7 of 7

Document Number

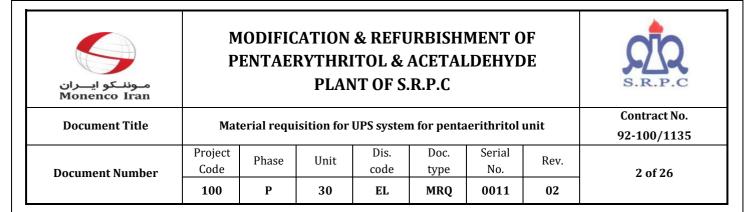
Project Code	Phase	Unit , ,		Doc. type	. No	
100	D	30	EL	DAS	0008	01

Rev.	Item Criteria Unit		Design Data	Vendor Data	Remark	
0	I.12.2	Up to 100% Capacity	Hr	12		
0	I.13	Battery Hydrogen Release Flow:				
0	I.13.1	on Boost Charge		By vendor		
0	I.13.2	on Float Charge		By vendor		
0	I.14	Delivery Conditions:				
0	I.14.1	Cells Delivered Filled / Dry		By vendor		
0	I.14.2	Electrolyte Delivered (Y/N)		By vendor		
0	l.15	Duration of Battery First Charge		By vendor		
0	I.16	Battery Installation Location:		Battery Room		
0	l.17	Battery Mounting Type:		on stand		
0	I.18	Dimensions/ Weight Per Cell:				
0	I.19	Length/ Depth/ Height	mm	By vendor		
0	1.20	Weight with Electrolyte	Kg	By vendor		
0	I.21	Volume of Electrolyte	Litre	By vendor		
0	1.22	Overall Length/ Depth/ Height:	mm	By vendor		
0	1.23	Overall Weight	Kg	By vendor		
0	1.24	Required Ventilation Flow:		By vendor		
0	1.25	Metering and Protection		According to SLDs		
0	1.26	Accessories:				
0	1.26.1	density-meter		Yes		
0	1.26.2	Portable Volt-meter		Yes		
0	1.26.3	Thermo-meter		Yes		
0	1.26.4	Nameplates		Yes		
0	1.26.5	Batteries Isolating Breaker:		Yes (Fuse Switch)		



MATERIAL REQUISITION FOR UPS SYSTEM FOR PENTAERITHRITOL UNIT

03					
02	JAN.2016	Revised Acc. To Letter No. 94-100/3971 Dated On 94/08/11	SZI	JRF/ASR	FMI
01	OCT.2015	Revised Acc. To Letter No. 94-100/861 Dated On 94/03/10	SZI	JRF/ASR	FMI
00	MARCH.2015	Issued for Approval	SAF	JRF/KMH	FMI
Rev.	Date Of Issue	Description	Prepared	Checked	Approved



LIST OF REVISED PAGES

PAGE	00	01	02	03	04	05	06	07	REMARKS	PAGE	00	01	02	03	04	05	06	07	REMARKS
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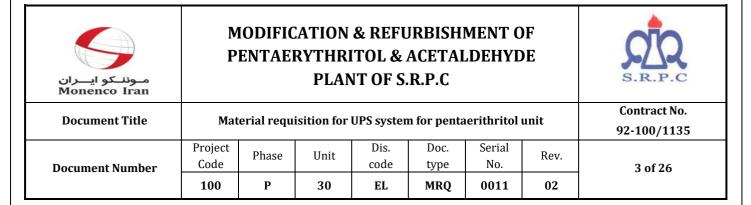
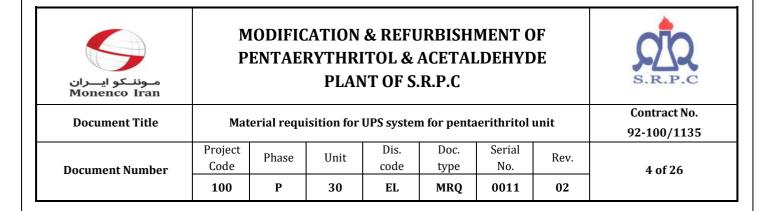


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1. INTRODUCTION

1.1. General

Shahid Rasouli Petrochemical Company (S.R.P.C) is being established for producing Formaldehyde, Acetaldehyde and Pentaerythritol in Mahshahr Free Zone. The required raw materials for this complex product are methanol, ethanol and caustic soda. Acetaldehyde and Pentaerythritol Plants have been designed by Iranian company, MONENCO Consulting Engineers. The aim of project is to produce 5000 MTPY Acetaldehyde and 10500 MTPY of Pentaerythritol based on 8000 working hours per year.

1.2. Purpose of Document

This document: "MATERIAL REQUISITION FOR UPS SYSTEM FOR PENTAERITHRITOL UNIT", covers the material requisition of design, supplying, fabricating, erecting, painting, insulating and testing of DC & AC UPS, hereinafter called "work" to be performed and completed by VENDOR for expansion project of "MODIFICATION & REFURBISHMENT OF PENTAERYTHRITOL PLANT OF S.R.P.C"

1.3. Definition of Terms

For the purpose of this document, the following definitions shall apply:

OWNER: S.R.P.C

CONSULTANT: Monenco Iran Consulting Engineers

PURCHASER: S.R.P.C

VENDOR: Panel Manufacturer

SUBVENDOR: VENDORs directly responsible to the VENDOR.

مـوننـكو ايـــران Monenco Iran	MODIFICATION & REFURBISHMENT OF PENTAERYTHRITOL & ACETALDEHYDE PLANT OF S.R.P.C							S.R.P.C
Document Title	Mat	erial requ	unit	Contract No. 92-100/1135				
Document Number	Project Code	Phase	Unit	Dis. code	Doc. type	Serial No.	Rev.	5 of 26
	100	P	30	EL	MRQ	0011	02	

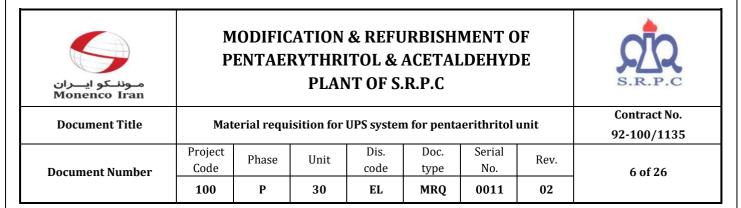
2. REQUISITION FOR INQUIRY

No.	Item	Unit	Quantity
1	220 VAC AC-UPS:		
1.1	220VDC Completed Battery Charger, 135A	SET	1
1.2	220 VAC Completed inverter, 17KVA	SET	1
1.3	BYPASS TRANSFORMER, 17KVA	SET	1
1.4	Distribution Panel	SET	1
2	110 VDC DC-UPS:		
2.1	110VDC Completed Battery Charger, 125A	SET	1
2.2	Distribution Panel	SET	1

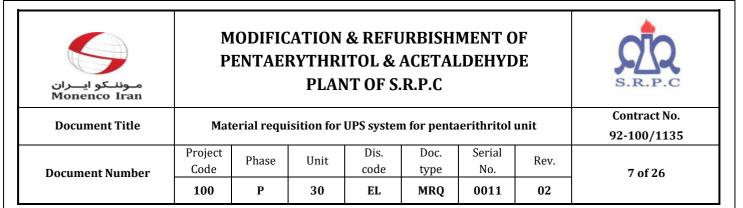
3. CODES, STANDARDS & DOCUMENTS

This requisition is composed of the documents hereafter listed:

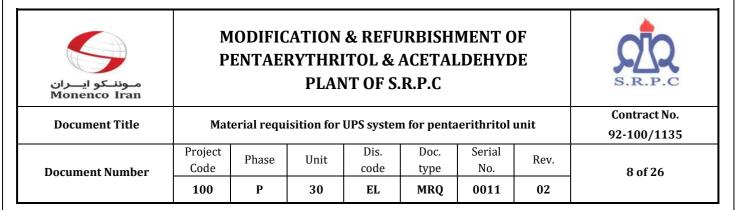
No.	Description	on						
3.1	Standard:							
3.1.1	NFPA	Identification of the hazard of materials for						
	704	emergency response						
3.1.2	American National Standards Institute (ANSI)/IEEE:							
	IEEE1115	IEEE recommended practice for sizing Ni-Cd batteries for stationary application.						
	IEEE1106	IEEE recommended practice for installation, maintenance, testing and replacement of vented Ni-Cd batteries for stationary applications.						
	IEEE1184 supply syste	IEEE guide for batteries for uninterruptable power ems.						



No.	Description
	ANSI-IEEE 100 Dictionary of Electrical and Electronic Terms
	ANSI C37.16 Low voltage circuit breakers and AC power
	circuit protectors, preferred ratings, related
	requirement and application
	recommendation
	ANSI IEEE C37.20.1 Metal enclosed low voltage power circuit
	breaker switchgear
	ANSI IEEE C37.20.2 Metal clad and station type cubicle
	switchgear
	IEEE 946 Recommended practice for the design of DC auxiliary
	power system for generating stations
	ANSI/NEMA PE1 Uninterruptible power systems
	ANSI/UL 1778 Uninterruptible power supply equipment
3.1.3	International Electro-technical Commission (IEC):
	IEC FORTO 2 Cofee and the second for a second and better the second
	IEC 50272-2 Safety requirement for secondary batteries and
	battery installation
	IEC 60044 Current transformers
	IEC 60050 International electro technical vocabulary IEC 60051 Direct acting indicating analogue electrical measuring
	IEC 60051 Direct acting indicating analogue electrical measuring instruments and their accessories
	IEC 60073 Basic and safety principles for man-machine interface,
	marking and identification - Coding principles for
	indication devices and actuators - Colors of indication
	lights and push-buttons
	IEC60076 Power transformer
	IEC60119 Recommendations for polycrystalline semiconductor
	rectifier stacks and equipment
	IEC 60146 General requirement and line commutated converters-
	semiconductor converter
	IEC 60186 Voltage transformers
	IEC 60228 Conductors of insulated cables
	IEC 60255 Electric relays
	IEC 60269 Low voltage fuses
	IEC 60289 Reactors
	IEC 60439 Low voltage switchgear and control gear assemblies
	IEC 60478 Stabilized power supplies, DC output
	IEC60445 Identification of equipment terminals and of
	terminations of certain designated conductors



No.	Description	on							
	IEC 60529	Degree of protection provided by enclosures (IP Code)							
	IEC 61557	Electrical safety in low voltage distribution systems up							
	1500000	to 1000VAC and 1500VDC							
	IEC60622 cells	Sealed nickel cadmium prismatic rechargeable single							
	IEC60623	Vented nickel cadmium prismatic rechargeable single							
	cells	venteu meker caumum prismatic rechargeable single							
	IEC 60664	Insulation coordination for equipment within low							
	voltage syst								
	IEC 60686	Stabilized Power Supply, AC output							
	IEC 60726	Dry type power transformer							
	IEC 60905	Loading guide for dry-type power transformer							
	IEC60947	Low voltage switches, disconnectors, switch							
		disconnectors and fuse combination units							
		Electrolyte for vented nickel cadmium cell							
		IEC 61000 Electromagnetic Compatibility EMC							
	IEC 61660	Short circuit in DC auxiliary installation in power							
	plants and s IEC61204								
	Low voltage power supply devices, DC output,								
	IEC 62040	e characteristics Uninterruptible power systems (UPS)							
244	OMNED CA	ANDADDC							
3.1.4	OTHERST	ANDARDS:							
	NEMA AB1	Molded Case Circuit Breakers							
	NEMA 250	Enclosures for Electrical Equipment (1000 Volts							
	Maximum)								
	PE5 1985	Utility type battery chargers							
	PE7 1985 EN 55014	Communication type battery chargers chargers							
		74 material and equipment standard for battery and							
		battery charger (DC power ups)							
	IPS-M-EL-1	76 material and equipment standard for							
		uninterruptible power supply system (UPS)							
3.2	Document	S:							
3.2.1.	PENTAERY	THRITOL 110 VDC UPS SLD							
	100-D-30-E	L-SLD-0016							
3.2.2	PENTAERY	THRITOL 220 VAC UPS SLD							
	100-D-30-E	L-SLD-0017							

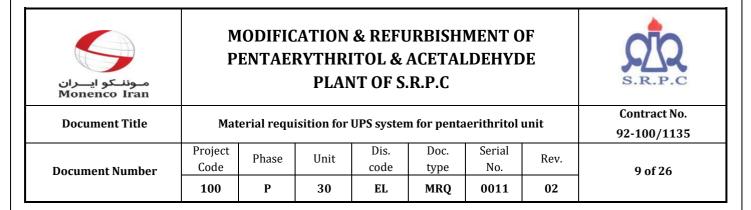


No.	Description
3.2.3	PENTAERYTHRITOL 110 VDC UPS SIZING
	100-D-30-EL-CAL-0008
3.2.4	PENTAERYTHRITOL 220 VAC UPS SIZING
	100-D-30-EL-CAL-0009
3.2.5	DC & AC UPS TECHNICAL SPECIFICATIONS
	100-B-00-EL-SPC-0011
3.2.6	DATA SHEET FOR PENTAERYTHRITOL DC UPS & AC UPS
	100-D-30-EL-DAS-0007
3.2.7	PENTAERYTHRITOL DC & AC UPS LOAD LIST
	100-D-30-EL-LIS-0012

4. PARTIULAR TECHNICAL SPECIFICATION

4.1. General

- **4.1.1.** The purpose of this specification is to define the VENDORs' duty relevant to:
 - Limit of supplies
 - VENDOR's responsibilities
 - Guarantees
 - Quality assurance
 - **4.1.2.** All the applicable documents listed in section 3 of this requisition shall be taken into consideration and in case of conflict the VENDOR shall refer to the PURCHASER for clarification, however, as a general rule, where a conflict exists between the panel documents.
- **4.1.3.** In case of any lack of specification and standards the VENDOR shall refer to the PURCHASER for clarification.
- **4.1.4.** VENDOR shall design and fabricate equipments in accordance with reference codes and standards, this material requisition and its attachments. Assumptions, inputs and outputs shall be included in calculation notes. If design calculation is made by computer software, calculation files (in its original format and PDF format), name of software and version number shall be included. If design calculation is made by none usual/prevalent software or made by a spreadsheet calculation file, the software/file shall proffer in practicable and editable format.



- **4.1.5.** The VENDOR is sole responsible for the correct applicable of the contractual documentation and the adherence of the supply to the reference specifications.
- **4.1.6.** The VENDOR shall have the full responsibilities for the design, material selection, equipment material construction, test and satisfactory performance of the supplied equipment/material.

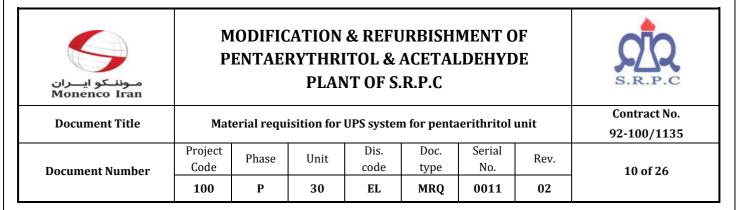
4.2. Scope of Work

The following shall be included in SUPPLIER scope of work, but not limited,

- ☑ manufacturing, supply of equipment, and, performing factory test
- ☑ Procurement of related components
- ✓ Preparation and submission of drawings, technical documentation and instruction for site storage, erection and tests supervisions.
- ☑ Test, inspection and certification
- ✓ Protection and packing
- ☑ Transportation and delivery at SRPC
- ☑ Application of local regulation in design and manufacturing
- **☑** Performance guarantee
- ☑ Documents as per "Vendor data requirement"
- ☑ Site services

4.3. Scope of Supply

- **4.3.1.** The Vendor shall supply Equipment & Material including:
 - Requested Equipment & Material according to related MTO/ drawings/specification
 - All accessories for a complete installation, such as fixing and connecting material, brackets, bolts, etc.
 - ✓ All necessary accessories described in related MTO/drawings/specification



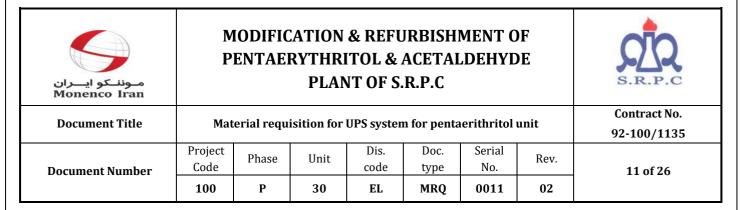
- ☑ Equipment & Material manufacturer's recommended spare parts for commissioning and 2-years & 5-years operation
- ☑ Special tools for installation & maintenance
- ☑ Drawings and documents
- ☑ Test and inspection procedure
- ☑ Factory acceptance test (FAT) & procedure
- ☑ Test and inspection report and certificate
- ☑ Packing and transportation
- ☑ Coordinate with the Employer/Employer's Representative in establishing, as part of the Intercommunication system
- ☑ Preparation of system diagrams, equipment arrangement and detail drawings and inter-connection diagrams of all system
- ☑ Supervision of installation of UPS system
- ☑ Set-up, Programming and Commissioning of the UPS system
- ☐ Training for Hardware, Software, Operation and Maintenance
- ☑ Supervision for UPS Main System Installation
- ☑ Commissioning of UPS Main Station
- Any other item not specifically identified but necessary to manufacture, assembly or testing of the Work
- **4.3.2.** The vendor shall be responsible for the total system functionality and performance. All equipment and accessories, which are required for the complete system, shall be in vendor scope of supply.

The vendor shall also be responsible for providing/coordinating detail design of all equipment and components within the scope of supply, providing expediting services, progress reports, organizing vendor and sub vendor coordination, resolving engineering questions relating to equipment within the scope of supply and interfaces

4.4. Exclusions

The followings are not included in VENDOR scope of work/supply:

☑ Supply of instrumentation



☑ Any kind of civil works

4.5. Packing, Marking and Shipping

- **4.5.1.** Goods shall be suitably packed and protected "seaworthy & tropical proof" according to the international standards, from damage under sea transportation and truck transportation in Iran to ensure safe arrival at destination which may involve multiple handling, extended storage and exposure to moisture.
- **4.5.2.** The contents must also withstand one year transmit condition without general damage and storing 2 years in site condition.
- **4.5.3.** All rolled plates shall be shipped on temporary saddles to prevent any damage/deformation during handling and storage at site.
- **4.5.4.** All shop prefabricated parts shall be properly stiffened and protected for shipment in order to avoid damages during loading, transportation, and unloading operation.
- **4.5.5.** For more information refer to packing, marking and shipping procedure.

4.6. Quality Control and Inspection Reports

VENDOR shall perform all the required tests and inspections according to the relevant job specifications and standards and submit the reports to the PURCHASER according to the quality control procedure (QCP) for panel system.

4.7. Disposal of Waste

The VENDOR shall dispose all rubbish, debris and scraps resulting from fabrication assemble and installation work on site (If any).

4.8. Specific Requirements

4.8.1. VENDOR Responsibility

 It will be VENDOR responsibility to comply with any other effective local laws or regulations, and inform PURCHASER if any of this document and/or its attachments is in conflict with them for PURCHASER resolution in writing.

مـوننـكو ايـــران Monenco Iran	MODIFICATION & REFURBISHMENT OF PENTAERYTHRITOL & ACETALDEHYDE PLANT OF S.R.P.C							S.R.P.C
Document Title	Mat	erial requ	isition for	UPS syster	n for penta	erithritol	unit	Contract No. 92-100/1135
Document Number	Project Code	Phase	Unit	Dis. code	Doc. type	Serial No.	Rev.	12 of 26
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 For any part of the supply not covered by this document and its attachments, VENDOR shall submit his standards for PURCHASER review/approval.

4.8.2. Documentation

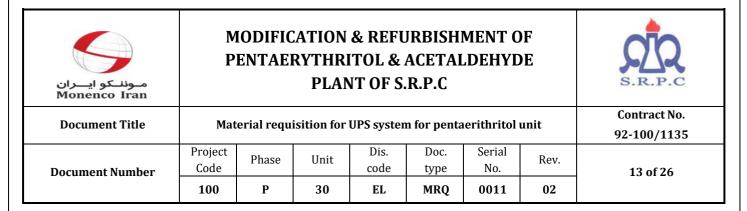
- The English language shall be used for all documents such as drawing, calculation specifications and certificates.
- The VENDOR shall provide all documents listed in the section 7 of this material requisition.

4.9. List of Deviations

The VENDOR shall submit the list of deviations with respect to all specifications, codes, standard and all documents attached to this material requisition in attached deviation form. If there are no deviations, VENDOR shall fully sign all documents. In case no deviations are mentioned in the quotation, it will be assumed to be fully in compliance with the requirements of requisition and its attachments.

4.10. Guarantees

- **4.10.1.** 18 months after shipment or 12 months after operation, whichever occurs first, any materials supplied by the VENDOR or its SUBVENDOR or any construction workmanship is found to be defective, or not in accordance with the specifications, the VENDOR shall, as soon as practicable after receipt of notice in writing from the PURCHASER, repair or replace such defective materials or workmanship or those not meeting the Specifications, at its own cost and expense.
- **4.10.2.** All materials or workmanship repaired or replaced pursuant to this guarantee shall, in each case, be guaranteed by VENDOR for a period of twelve (12) months from date of completion of repair or replacement. If the VENDOR fails to repair and correct or replace the defects of the works within a reasonable time, the PURCHASER shall be entitled to carry out such work by its own workmen or other contractors. All costs and expenses for and in connection with such repairs and correction or replacement of defects or meeting the specifications shall be for the account of the VENDOR. The VENDOR shall not be obliged to make repairs or replacements which become necessary because of ordinary



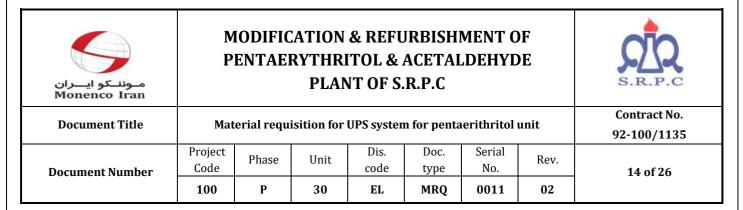
wear and tear normal corrosion or erosion due to operations exceeding design conditions.

4.10.3. In the event that any item or items of materials do not perform according to the design as set forth in the specifications and data sheets, the VENDOR shall repair or replace or cause SUBVENDORs to repair or replace such item or items of materials or correct defective installation at their own expense.

5. INSTRUCTION TO BIDDERS (ITB)

The proposed bid for carrying out the scope of work and supply of equipment and systems specified in this document shall provide the following information as minimum requirement for bid evaluation purposes: (All documents shall be in English language).

- ☑ Complete bill of material together with the quantities and prices as per format of the equipment and materials take offs including labeling provided in this document. VENDOR shall identify all exception, clarification and deviations (minor and major) to the tender documents. The VENDOR shall specify all the exceptions and deviations taken to this document. If no exception is noted it will be considered that the VENDOR complies fully with this document
- ✓ Technical specification and descriptions of the systems and equipment considered in the proposal.
- ☑ Detail drawing and calculation of systems and equipment.
- ☑ Indication of the scope of work (engineering, procurement / fabrication, and delivery) schedule to site monthly after award of contract.
- Spare parts list for commissioning / start up, two (2) years and capital of plant operation.
- ✓ Special tools list.
- ☑ Consumable materials.
- ☑ Utility list.
- ☑ List of all projects completed in the last ten years.



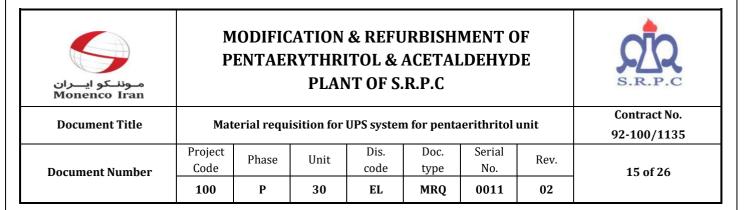
☑ Quality control plan (Q.C.P).

VENDOR shall provide the required number of personnel for the erection and mechanical testing, pre-commissioning and commissioning, start-up and initial operation of the package, so as to demonstrate and proved the specified guarantees. VENDOR shall train the company's personnel to assist in the pre-commissioning and commissioning, start-up, operation and maintenance of the package VENDOR shall provide the necessary supervisory personnel at sites in time so as to meet the requirements of the time schedule.

Note: The VENDOR shall submit his technical and commercial proposals based on the information provided and requirements specified throughout this document.

5.1. Bidding Stage

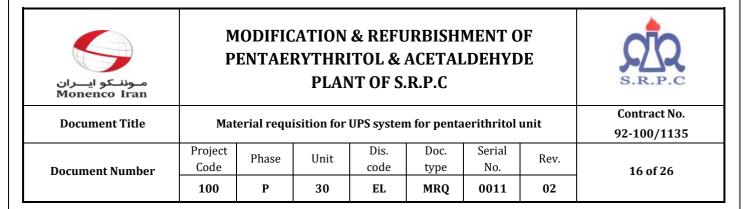
- **5.1.1.** Each quoted item shall be in strict accordance with requirements of this requisition and all its attachments.
- **5.1.2.** VENDOR shall fill in and sign "BID CHECK LIST" Item No 5.3 of this requisition and return it with his quotation.
- **5.1.3.** VENDOR shall sign and furnish the list of all deviations to this requisition and its attachments (if any) with his quotation.
- **5.1.4.** VENDOR to furnish his "QUALITY ASSURANCE MANUAL" and/or his ISO-9000 series certificate from the international recognized authorities
- **5.1.5.** VENDOR to furnish (within the bid) his reference list to prove his experience in the field of this requisition's scope of service and work
- **5.1.6.** Price breakdown of VENDOR's quotation shall be based on main and option items listed in "Scope of supply and work", stated in the requisition.
- **5.1.7.** VENDOR shall fill in and sign the "CERTIFICATE OF ORIGIN" and return with the quotation (If applicable).
- **5.1.8.** Where erection or site supervision is requested, VENDOR shall state the daily rate in addition to the required man-days necessary site supervision for erection, pre-commissioning, commissioning, and start up (accommodation, meals and local transportation to /from job site will be provided at no cost to VENDOR).



- **5.1.9.** VENDOR shall fill in the PURCHASER's engineering data sheet formats attached to this requisition and include them in the quotation.
- **5.1.10.** VENDOR shall quote and provide spare part for pre-commissioning, commissioning, startup, two years normal operation and capital spare part separately in the "MINIMUM REQUIREMENT OF SPARE PART" based on VENDOR's experience.
- **5.1.11.** VENDOR's proposed list shall at any condition, cover the minimum percentage of the required spare part stated in table of item No.2 "REQUISITION FOR INQUIRY" forms.
- **5.1.12.** In case of any inconsistency between the documents, VENDOR shall consider the following priority for technical documents:
 - 1) Material requisition
 - 2) Data sheets
 - 3) Specification
 - 4) International standards
 - 5) VENDOR's practice
- **5.1.13.** VENDOR shall in his quotation highlight the inconsistencies for the PURCHASER's attention and approval.
- **5.1.14.** For commercial conditions of the bid (availability period, packing, guarantee, LC opening, price validity, etc) Please refer to procurement items of the attachments.
- **5.1.15.** In case of applying SUBVENDORs in order to perform part of the job the VENDOR shall provide the SUBVENDOR list and submit it to PURCHASER for review and approval.

5.2. Ordering Stage

- **5.2.1.** VENDOR's quotation, catalogues, calculation, drawings and documents shall be in "English language".
- **5.2.2.** Engineering units of measurement in VENDOR's documents shall be to the same standard as those stated in specification attached to the requisition (Mainly SI units).
- **5.2.3.** VENDOR shall follow the attached codes and standard as per attachment No.2.



- **5.2.4.** Document indicated in "RFD" (REQUIREMENT FOR DOCUMENT) form shall be provided by VENDOR with the required number and in time limits state in the same sheet and as per instructions stated.
- **5.2.5.** Materials covered with this requisition shall be available for delivery if applicable, not later than [to be specified later]. VENDOR shall provide a "MANUFACTURING AND DELIVERY SCHEDULE" and furnish in the time of order considering the stated date. A preliminary schedule to be also provided with quotation
- **5.2.6.** After order placement VENDOR shall carefully fill in the SPIR (spare parts interchangeability record) form with the list of spare parts approved by PURCHASER.
- **5.2.7.** All the offered items shall be inspected and tested according to the extent stated in "DC & AC UPS TECHNICAL SPECIFICATIONS" form attached.
- **5.2.8.** Shipment cannot be made without written approval from the PURCHASER as "Release note for shipment".
- **5.2.9.** For inspection please refer to relevant procedure submitted together with this MR.
- **5.2.10.** All PURCHASER's obligations under "INSPECTION PROCEDURE" shall be accepted by VENDOR and considered in his inspection procedure.
- **5.2.11.** Locally mounted equipment shall be designed and manufactured to withstand the local conditions and utilities specification.
- **5.2.12.** Equipment shall be provided with a stainless steel name plate with the following data printed on them:
 - **☑** PURCHASER
 - ☑ Equipment tag No
 - ☑ Manufacturer's name, model No., serial No., date of manufacture
 - **☑** Design condition
 - ☑ Operating data
 - ☑ Degree of protection
 - ☑ Certifications
 - ☑ Other data as indicated in name plate of std. drawing enclosed in this
 - **☑** Document

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Document Number	Project Code	Phase	Unit	Dis. code	Doc. type	Serial No.	Rev.	17 of 26
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5.2.13. Besides to all other document stated in RFD form, VENDOR shall supply "QUALITY DOSSIER", including design calculations, welding procedure, welder's qualifications (if applicable), material test certificates, inspection certificates etc.

5.2.14. LIABILITY

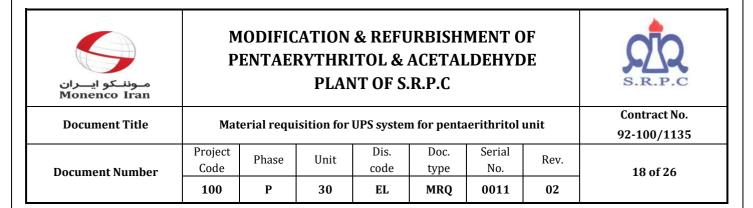
VENDOR shall be liable (without formal notice of non-compliance being required) for any loss or damage incurred by PURCHASER and/or OWNER due to VENDOR or SUBVENDORs non-compliance with the terms and condition of this requisition.

5.3. Bidding Check List

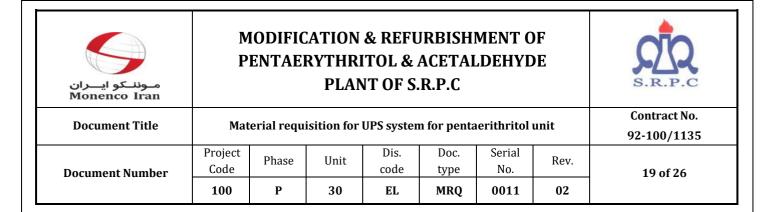
NOTE 1: This sheet is to be returned by bidder with technical quotation

NOTE 2: The numbers in brackets, refers to notes stated in "instruction to bidders (ITB) in item no.5

Item		Yes	No	Not applicable
1	Have you included in your quotation :			
1.1	Bid technical check list (5.1.2)			
1.2	Letter of conformity (5.1.3) (Statement of conformity and deviations).			
1.3	Quality assurance manual (or certificate) (5.1.4)			
1.4	Reference list (5.1.5)			
1.5	Price breakdown (5.1.6)			
1.6	Certificate of origin (5.1.7)			
1.7	Site service daily rate and man-days (5.1.8)			
1.8	Spare part list (5. 1.10)			
1.9	SUBVENDOR list (5.1.14)			
1.10	Priority of documents (5.1.12)			
2	Have you studied, taken into account and will you follow instructions stated in the requisition notes regarding			



Item		Yes	No	Not applicable
2.1	English language (5.2.1)			
2.2	Units of measurement (5. 2.2)			
2.3	Latest manufacturing standard (5.2.3)			
2.4	Document requirements (5.2.4)			
2.5	Manufacturing and delivery schedule (5.2.5)			
2.6	Filling the SPIR form after P.O. Placement (5.2.6)			
2.7	Inspection requirements (5.2.7)			
2.8	Shipment approval (5.2.8)			
2.9	Environmental condition (5.2.11)			
2.10	Name plate (5.2.12)			
2.11	Quality dossier (5.2.13)			
2.12	Liability (5.2.14)			



6. INSPECTION AND TESTS

6.1. Scope and General Condition of Inspection

Inspection and Test shall be carried out at Vendor's shop as per relevant "ITP" and applicable codes and standard. ITP shall be provided by vendor and will be approved by purchaser/owner.

6.2. Definitions

INSPECTOR

Means PURCHASER, OWNER and/or his "THIRD PARTY" inspector as will be introduced after order placement

HOOLD (INSPECTION) POINT (HP)

The designated feature is to be inspected by inspector.

VENDOR / manufacturer is to notify inspector 20 days prior to performing the designated feature. Activities may not proceed ("hold") until the continuation of work is permitted by PURCHASER or waived in writing by PURCHASER ("inspection waiver").

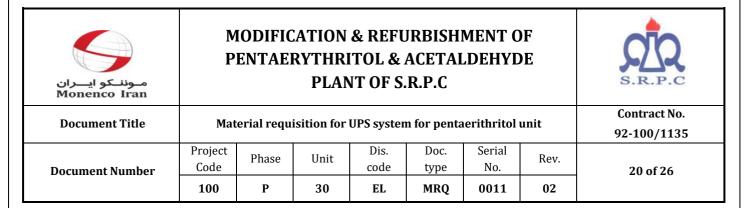
WITNESS (INSPECTION) POINT (WP)

The designated feature is to be witnessed by inspector.

VENDOR / manufacturer is to notify inspector 20 days, prior to performing the designated feature. If the inspector fails to be present, activities may proceed without witnessing or waiving of the inspection as will be decided by PURCHASER.

RANDOM (INSPECTION) POINT (RP)

The inspection of the designated feature will take place during inspection visits as a standard performance.



VENDOR/manufacturer does not have to notify inspector prior to performing the designated feature. Activities may proceed without witnessing or waiving by inspector.

REVIEW DOCUMENTATION (RD)

Documentation will be reviewed by inspector.

6.3. Waived Inspection

For the designated feature, shop inspection is not carried out, as will be decided by PURCHASER.

6.4. Others

Unless otherwise stated in the specification, data sheet and/or formal sketch, the under mentioned shall be followed.

- ☑ All bolting threads used shall be of ISO metric system.
- ☑ All surfaces shall be painted, according to technical specification for painting.
- oxdot Spare parts shall be packed separately from the equipment.
- As an option Iranian VENDOR shall prepare his offer for the following options:
- Exactly as per this material requisition.
- Equipment material to be procured by PURCHASER. In this case VENDOR shall issue shop and cutting card drawings for PURCHASER review and approval.

7. REQUIREMENT FOR DOCUMENTS (RFD FORM)

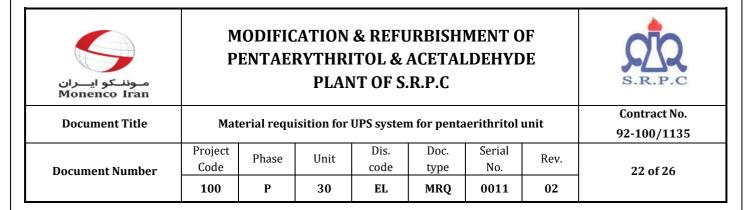
- Any document sent by VENDOR shall have its own transmittal sheet. Each transmittal sheet shall cover only the documents of one purchase requisition.
- All documents, drawings and calculations, shall proffer in original and editable format, also if preliminarily or for approval.

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Document Title	Mat	erial requ	Contract No. 92-100/1135					
Document Number	Project Code	Phase	Unit	Dis. code	Doc. type	Serial No.	Rev.	21 of 26
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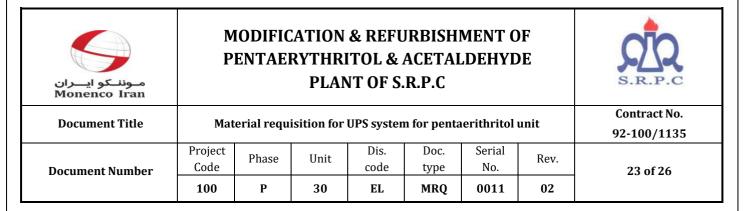
☑ The delivery schedule and number of copies of documentation shall be in accordance with the following table, unless/otherwise indicated on purchase order.

Table RFD: Requirement for documents (RFD) [minimum requirements and it shall be fitted with disciplines &/ equipment, technical RFD shall be approved by OWNER in the stage of MR issuing].

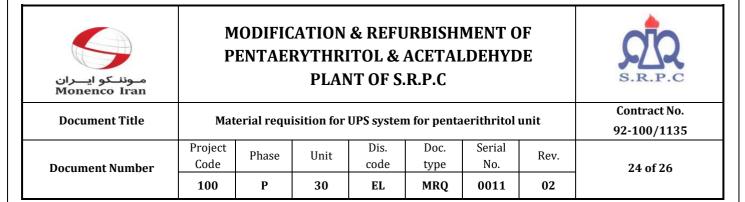
		With BID			INSTAL	LMENT			
_		N/TYP E	F	IRST ISSU	JE	FI	NAL ISSI	JE	ВООК
ITEM NO.	DESCRIPTION		N/TYPE	DUE DATE	STATUS	N/TYPE	DUE DATE	STATUS	VENDOR DATA BOOK
		(Note1)	(Note1)	(Note2)	(Note4)	(Note1)	(Note 2)	(Note4)	
1.	GENERAL DOCUMENTS								
1.1	List and schedule of VENDORS documents and drawings		2/C/E	2W	F				
1.2	Manufacturing schedule per equipment (including design, procurement, fabrication, test and packing, delivery)		2/C/E	2W	В				
1.3	SUBVENDOR list	2/C							3/C/E
1.4	Un-priced copy of main sub-orders	2/C	2/C/E		F				
1.5	VENDOR's references list	2/C							
1.6	Brochures & catalogues containing description of MV switchboard & all other accessories	2/C							3/C/E
1.7	Erection, installation, shipping & storage document & instructions	2/C							3/C/E
1.8	Operation & maintenance manual	2/C							3/C/E



		With BID			INSTAL	LMENT			
		N/TYP E	F	IRST ISSU	JE	FI	NAL ISSU	JE	A BOOK
ITEM NO.	DESCRIPTION		N/TYPE	DUE DATE	STATUS	N/TYPE	DUE DATE	STATUS	VENDOR DATA BOOK
		(Note1)	(Note1)	(Note2)	(Note4)	(Note1)	(Note 2)	(Note4)	
1.9	Recommended spare part list for two years operation	2/C	2/C/E		В	2/C/E		D	3/C/E
1.10	VENDOR's procurement status (monthly)		2/C/E		F				
1.11	Monthly progress report		2/C/E		F				
1.12	List of spare parts for erection , commissioning and start-up	2/C	2/C/E		В	2/C/E		D	3/C/E
2.	ELECTRICAL DOCUMENTS	5							
2.1	Related drawings such as single line diagram, general arrangement, control diagram &		2/C/E	4W	В	2/C/E		С	3/C/E
2.2	List of major & auxiliary components		2/C/E	4W	В	2/C/E		С	3/C/E
3.	INSPECTION DOCUMENTS	5							
3.1	Fabrication and quality control plan	2/C	2/C/E		В	2/C/E		С	3/C/E
3.5	Inspection and test plan		2/C/E		В	2/C/E		С	3/C/E
3.6	All testing procedure		2/C/E		В	2/C/E		С	3/C/E
3.7	All testing report		2/C/E		F				3/C/E
3.8	Material certificates / certificate of origin as per relevant code and		2/C/E		В				3/C/E



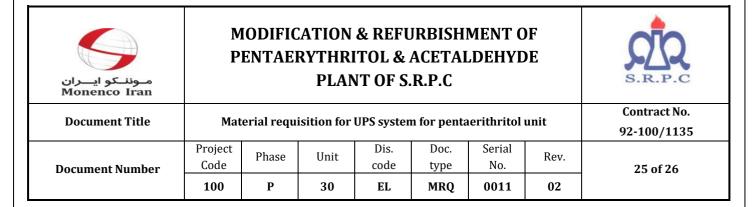
		With BID			INSTAL	LMENT			
		N/TYP E	F	RST ISSU	JE	FI	NAL ISSU	JE	1 BOOK
ITEM NO.	DESCRIPTION		N/TYPE	DUE DATE	STATUS	N/TYPE	DUE DATE	STATUS	VENDOR DATA BOOK
		(Note1)	(Note1)	(Note2)	(Note4)	(Note1)	(Note 2)	(Note4)	
	standard								
4.	FINAL AND SHIPPING DO	CUMENT							
4.1	Final book index		2/C/E		В	2/C/E		С	3/C/E
4.2	Final data book (6)		2/C/E		В				3/C/E
4.3	Un-priced copy of main sub-orders		2/C/E		В	2/C/E		С	3/C/E
4. 4	Recommendations for protection during transportation		2/C/E		В				3/C/E
4.5	Heavy and/or large equipment drawings with weight ,transportation drawings		2/C/E		В	2/C/E		С	3/C/E
4.6	Pickling and passivation procedure (if applicable)		2/C/E		В	2/C/E		С	3/C/E
4.7	Filled out SPIR forms		2/C/E		В	2/C/E		С	3/C/E
4.8	VENDOR mechanical catalogue		2/C/E		F				3/C/E
4.9	Packing list		2/C/E		В				3/C/E
4.10	Shipping documents, transport authorization		2/C/E		В	2/C/E		D	3/C/E
4.11	Origin certificates of equipment		2/C/E		В			D	3/C/E



		With BID			INSTAL	LMENT			
		N/TYP E	FI	RST ISSU	JE	FI	ВООК		
ITEM NO.	DESCRIPTION		N/TYPE	DUE DATE	STATUS	N/TYPE	DUE DATE	STATUS	VENDOR DATA BOOK
		(Note1)	(Note1)	(Note2)	(Note4)	(Note1)	(Note 2)	(Note4)	·
4.12	Release note		2/C/E		F				3/C/E

Notes:

- 1) N: Number of document
 - Type: C=Copy, R=Reproducible, E=Electronic Copy (Native)
- 2) W=Calendar Week, M=Calendar Month
- 3) Installments to payment schedule established by purchaser according to vendor's work progress and to delivery of relevant document
- 4) Status code:
 - F = Preliminary or for information
 - B = For approval
 - C = Final and approved documents (all company's comments incorporated)
 - D = As delivered
 - Any document returned to vendor with comments must be reissued for approval
- 5) NDT: Non-Destructive Test
- 6) Vendor data book includes final drawings/documents, approved deviation, unpriced purchase order & sub-purchase order and maintenance dossier etc.
- 7) Due dates shall be intended "after order", unless different specified.
- 8) For document link QA one set.
- 9) Vendor shall follow all requirement of EN-10204 for material, inspection, etc.



8. Attachments

ATTACHMENT NO.1

SPARE PART LIST AND INTERCHANGEABILITY RECORD (SPIR)

ATTACHMENT NO.2

INSPECTION PROCEDURE

ATTACHMENT NO.3

LOCAL CONDITION AND UTILITIES SPECIFICATION

ATTACHMENT NO.4

CODES AND STANDARDS AND RELATED GENERAL AND ENGINEERING SPECIFICATION

ATTACHMENT NO.5

TECHNICAL SPECIFICATION FOR PAINTING*

(Refer to DC UPS & AC UPS Technical Specifications)

ATTACHMENT NO.6

TECHNICAL SPECIFICATION FOR INSULATION*

ATTACHMENT NO.7

PENTAERYTHRITOL DC UPS & AC UPS DATA SHEETS

ATTACHMENT NO.8

MTO*

ATTACHMENT NO.9

PACKING, SHIPPING AND MARKING PROCEDURE

ATTACHMENT NO.10

ENGINEERING GENERAL SPECIFICATION OF NAME PLATE FOR ALL EQUIPMENTS* (Refer to DC UPS & AC UPS Technical Specifications)

ATTACHMENT NO.11

GENERAL TERMS AND CONDITION FOR LOCAL PURCHASE

ATTACHMENT NO.12

GENERAL TERMS AND CONDITION FOR FOREIGN PURCHASE*

ATTACHMENT NO.13

TECHNICAL SPECIFICATION FOR WELDING AND INSPECTION*

ATTACHMENT NO.14

PENTAERYTHRITOL DC UPS & AC UPS TECHNICAL SPECIFICATIONS

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ATTACHMENT NO.15

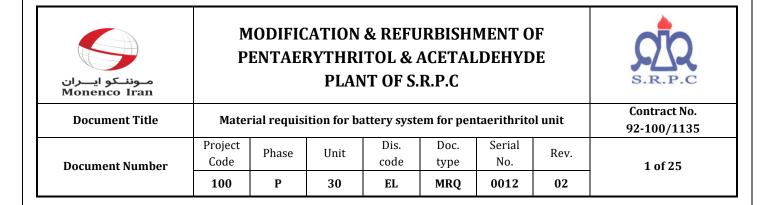
PENTAERYTHRITOL DC UPS & AC UPS CALCULATION
ATTACHMENT NO.15.1 110 VDC UPS SIZING
ATTACHMENT NO.15.2 220 VAC UPS SIZING

ATTACHMENT NO.16

PENTAERYTHRITOL 110 VDC UPS & 220 VAC UPS SLD

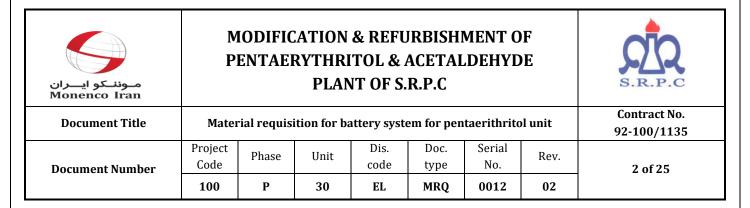
ATTACHMENT NO.16.1 110 VDC UPS SLD ATTACHMENT NO.16.2 220 VAC UPS SLD

*:(Not Applicable)



MATERIAL REQUISITION FOR BATTERY SYSTEM FOR PENTAERITHRITOL UNIT

03					
02	JAN.2016	Revised Acc. To Letter No. 94-100/3971 Dated On 94/08/11	SZI	JRF/ASR	FMI
01	OCT.2015	Revised Acc. To Letter No. 94-100/861 Dated On 94/03/10	SZI	JRF/ASR	FMI
00	MARCH.2015	Issued for Approval	SAF	JRF/KMH	FMI
Rev.	Date Of Issue	Description	Prepared	Checked	Approved



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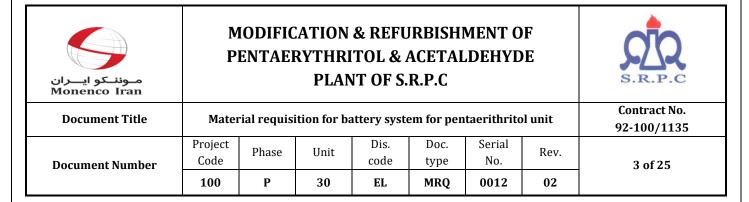
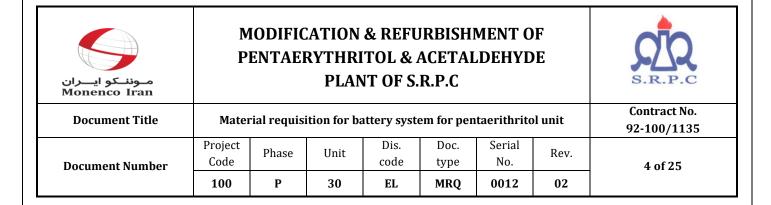


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1. INTRODUCTION

1.1. General

Shahid Rasouli Petrochemical Company (S.R.P.C) is being established for producing Formaldehyde, Acetaldehyde and Pentaerythritol in Mahshahr Free Zone. The required raw materials for this complex product are methanol, ethanol and caustic soda. Acetaldehyde and Pentaerythritol Plants have been designed by Iranian company, MONENCO Consulting Engineers. The aim of project is to produce 5000 MTPY Acetaldehyde and 10500 MTPY of Pentaerythritol based on 8000 working hours per year.

1.2. Purpose of Document

This document: "MATERIAL REQUISITION FOR BATTERY SYSTEM FOR PENTAERITHRITOL UNIT", covers the material requisition of design, supplying, fabricating, erecting, painting, insulating and testing of DC & AC UPS BATTERIES, hereinafter called "work" to be performed and completed by VENDOR for expansion project of "MODIFICATION & REFURBISHMENT OF PENTAERYTHRITOL PLANT OF S.R.P.C"

1.3. Definition of Terms

For the purpose of this document, the following definitions shall apply:

OWNER: S.R.P.C

CONSULTANT: Monenco Iran Consulting Engineers

PURCHASER: S.R.P.C.

VENDOR: Panel Manufacturer

SUBVENDOR: VENDORS directly responsible to the VENDOR.

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Document Number	Project Code	Phase	Unit	Dis. code	Doc. type	Serial No.	Rev.	5 of 25
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2. REQUISITION FOR INQUIRY

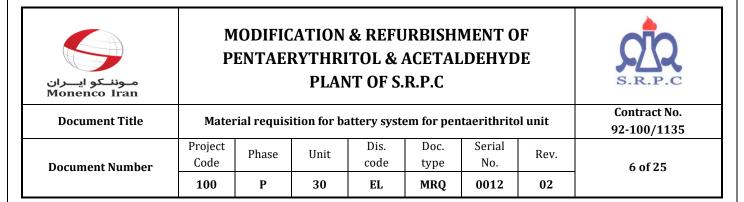
No.	Item	Unit	Quantity
1	220 VAC AC-UPS:		
1.1	NICKEL CADMIUM BATTERY BANK , 220VDC ,176 CELLS, 277AH	SET	1
2	110 VDC DC-UPS:		
2.1	NICKEL CADMIUM BATTERY BANK , 110VDC,88 CELLS, 277AH	SET	1



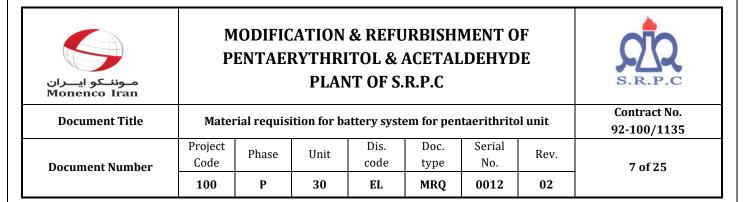
3. CODES, STANDARDS & DOCUMENTS

This requisition is composed of the documents hereafter listed:

No.	Description
3.1	Standard:
3.1.1	NFPA Identification of the hazard of materials for
	704 emergency response
3.1.2	American National Standards Institute (ANSI)/IEEE:
	IEEE1115 IEEE recommended practice for sizing Ni-Cd batteries for stationary application.
	IEEE1106 IEEE recommended practice for installation, maintenance, testing and replacement of vented Ni-Cd batteries for stationary applications.
	IEEE1184 IEEE guide for batteries for uninterruptable power supply systems.
	IEEE 946 Recommended practice for the design of DC auxiliary power system for generating stations
	ANSI/NEMA PE1 Uninterruptible power systems
	ANSI/UL 1778 Uninterruptible power supply equipment
3.1.3	International Electro-technical Commission (IEC):
	IEC 50272-2 Safety requirement for secondary batteries and



No.	Description
	battery installation
	IEC60119 Recommendations for polycrystalline semiconductor
	rectifier stacks and equipment
	IEC 60478 Stabilized power supplies, DC output
	IEC 60529 Degree of protection provided by enclosures (IP Code)
	IEC 61557 Electrical safety in low voltage distribution systems up
	to 1000VAC and 1500VDC
	IEC60622 Sealed nickel cadmium prismatic rechargeable single cells
	IEC60623 Vented nickel cadmium prismatic rechargeable single cells
	IEC 60664 Insulation coordination for equipment within low voltage systems
	IEC 60686 Stabilized Power Supply, AC output
	IECC60993 Electrolyte for vented nickel cadmium cell
	IEC 61000 Electromagnetic Compatibility EMC
	IEC 61660 Short circuit in DC auxiliary installation in power
	plants and sub stations
	IEC61204 Low voltage power supply devices, DC output,
	performance characteristics
	IEC 62040 Uninterruptible power systems (UPS)
3.1.4	OTHER STANDARDS:
	PE5 1985 Utility type battery chargers
	PE7 1985 Communication type battery chargers chargers
	EN 55014
	IPS-M-EL-174 material and equipment standard for battery and
	battery charger (DC power ups)
	IPS-M-EL-176 material and equipment standard for
2.2	uninterruptible power supply system (UPS)
3.2	Documents:
3.2.1.	PENTAERYTHRITOL 110 VDC UPS SLD
	100-D-30-EL-SLD-0016
3.2.2	PENTAERYTHRITOL 220 VAC UPS SLD
	100-D-30-EL-SLD-0017
3.2.3	PENTAERYTHRITOL 110 VDC UPS SIZING
	100-D-30-EL-CAL-0008



No.	Description
	100-D-30-EL-CAL-0009
3.2.5	DC & AC UPS TECHNICAL SPECIFICATIONS
	100-B-00-EL-SPC-0011
3.2.6	DATA SHEET FOR PENTAERYTHRITOL BATTERY BACKUP
	100-D-30-EL-DAS-0008
3.2.7	PENTAERYTHRITOL DC & AC UPS LOAD LIST
	100-D-30-EL-LIS-0012

4. PARTIULAR TECHNICAL SPECIFICATION

4.1. General

- **4.1.1.** The purpose of this specification is to define the VENDORs' duty relevant to:
 - Limit of supplies
 - VENDOR's responsibilities
 - Guarantees
 - Quality assurance
 - **4.1.2.** All the applicable documents listed in section 3 of this requisition shall be taken into consideration and in case of conflict the VENDOR shall refer to the PURCHASER for clarification, however, as a general rule, where a conflict exists between the panel documents.
 - **4.1.3.** In case of any lack of specification and standards the VENDOR shall refer to the PURCHASER for clarification.
 - **4.1.4.** VENDOR shall design and fabricate equipments in accordance with reference codes and standards, this material requisition and its attachments. Assumptions, inputs and outputs shall be included in calculation notes. If design calculation is made by computer software, calculation files (in its original format and PDF format), name of software and version number shall be included. If design calculation is made by none usual/prevalent software or made by a spreadsheet calculation file, the software/file shall proffer in practicable and editable format.
 - **4.1.5.** The VENDOR is sole responsible for the correct applicable of the contractual documentation and the adherence of the supply to the reference specifications.

مـوننـكو ايـــران Monenco Iran	MODIFICATION & REFURBISHMENT OF PENTAERYTHRITOL & ACETALDEHYDE PLANT OF S.R.P.C						S.R.P.C	
Document Title	Material requisition for battery system for pentaerithritol unit							Contract No. 92-100/1135
Document Number	Project Code	Phase	Unit	Dis. code	Doc. type	Serial No.	Rev.	8 of 25
	100	P	30	EL	MRQ	0012	02	

4.1.6. The VENDOR shall have the full responsibilities for the design, material selection, equipment material construction, test and satisfactory performance of the supplied equipment/material.

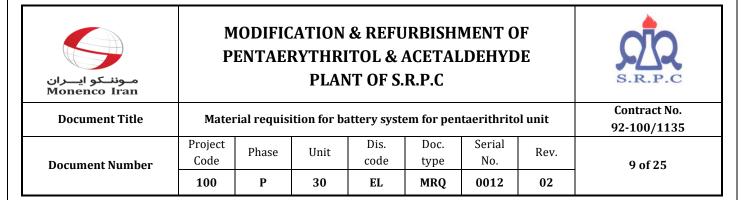
4.2. Scope of Work

The following shall be included in SUPPLIER scope of work, but not limited,

- ✓ manufacturing, supply of equipment, and, performing factory test
- ✓ Procurement of related components
- Preparation and submission of drawings, technical documentation and instruction for site storage, erection and tests supervisions.
- ☐ Test, inspection and certification
- ✓ Protection and packing
- ☑ Transportation and delivery at SRPC
- ☑ Application of local regulation in design and manufacturing
- ✓ Performance guarantee
- ☑ Documents as per "Vendor data requirement"
- ✓ Site services

4.3. Scope of Supply

- **4.3.1.** The Vendor shall supply Equipment & Material including:
 - ☑ Requested Equipment & Material according to related MTO/ drawings/specification
 - All accessories for a complete installation, such as fixing and connecting material, brackets, bolts, etc.
 - ☑ All necessary accessories described in related MTO/drawings/specification
 - ☑ Equipment & Material manufacturer's recommended spare parts for commissioning and 2-years & 5-years operation
 - ☑ Special tools for installation & maintenance
 - ☑ Drawings and documents



- ☑ Test and inspection procedure
- ☑ Factory acceptance test (FAT) & procedure
- oxdot Test and inspection report and certificate
- ☑ Packing and transportation
- ☑ Coordinate with the Employer/Employer's Representative in establishing, as part of the Intercommunication system
- ☑ Preparation of system diagrams, equipment arrangement and detail drawings and inter-connection diagrams of all system
- ☑ Supervision of installation of battery system
- ☑ Set-up, Programming and Commissioning of the battery system
- ☑ Training for Hardware, Software, Operation and Maintenance
- ☑ Supervision for battery Main System Installation
- ☑ Commissioning of battery Main Station
- Any other item not specifically identified but necessary to manufacture, assembly or testing of the Work
- **4.3.2.** The vendor shall be responsible for the total system functionality and performance. All equipment and accessories, which are required for the complete system, shall be in vendor scope of supply.

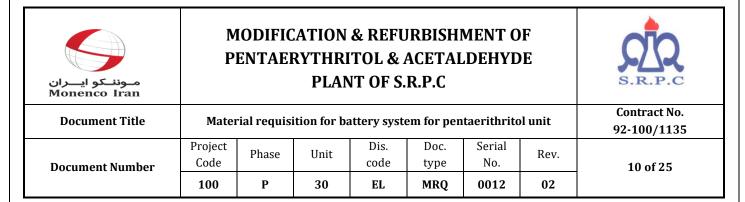
The vendor shall also be responsible for providing/coordinating detail design of all equipment and components within the scope of supply, providing expediting services, progress reports, organizing vendor and sub vendor coordination, resolving engineering questions relating to equipment within the scope of supply and interfaces

4.4. Exclusions

The followings are not included in VENDOR scope of work/supply:

- **☑** Supply of instrumentation
- ✓ Any kind of civil works

4.5. Packing, Marking and Shipping



- **4.5.1.** Goods shall be suitably packed and protected "seaworthy & tropical proof" according to the international standards, from damage under sea transportation and truck transportation in Iran to ensure safe arrival at destination which may involve multiple handling, extended storage and exposure to moisture.
- **4.5.2.** The contents must also withstand one year transmit condition without general damage and storing 2 years in site condition.
- **4.5.3.** All rolled plates shall be shipped on temporary saddles to prevent any damage/deformation during handling and storage at site.
- **4.5.4.** All shop prefabricated parts shall be properly stiffened and protected for shipment in order to avoid damages during loading, transportation, and unloading operation.
- **4.5.5.** For more information refer to packing, marking and shipping procedure.

4.6. Quality Control and Inspection Reports

VENDOR shall perform all the required tests and inspections according to the relevant job specifications and standards and submit the reports to the PURCHASER according to the quality control procedure (QCP) for panel system.

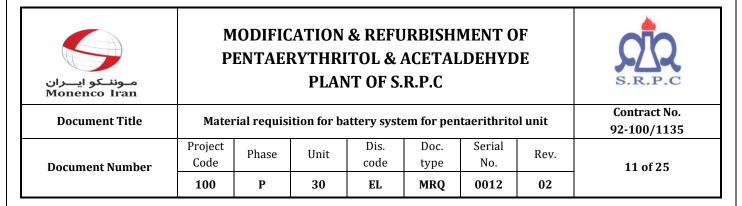
4.7. Disposal of Waste

The VENDOR shall dispose all rubbish, debris and scraps resulting from fabrication assemble and installation work on site (If any).

4.8. Specific Requirements

4.8.1. VENDOR Responsibility

- It will be VENDOR responsibility to comply with any other effective local laws or regulations, and inform PURCHASER if any of this document and/or its attachments is in conflict with them for PURCHASER resolution in writing.
- For any part of the supply not covered by this document and its attachments, VENDOR shall submit his standards for PURCHASER review/approval.



4.8.2. Documentation

- The English language shall be used for all documents such as drawing, calculation specifications and certificates.
- The VENDOR shall provide all documents listed in the section 7 of this material requisition.

4.9. List of Deviations

The VENDOR shall submit the list of deviations with respect to all specifications, codes, standard and all documents attached to this material requisition in attached deviation form. If there are no deviations, VENDOR shall fully sign all documents. In case no deviations are mentioned in the quotation, it will be assumed to be fully in compliance with the requirements of requisition and its attachments.

4.10. Guarantees

- **4.10.1.** 18 months after shipment or 12 months after operation, whichever occurs first, any materials supplied by the VENDOR or its SUBVENDOR or any construction workmanship is found to be defective, or not in accordance with the specifications, the VENDOR shall, as soon as practicable after receipt of notice in writing from the PURCHASER, repair or replace such defective materials or workmanship or those not meeting the Specifications, at its own cost and expense.
- **4.10.2.** All materials or workmanship repaired or replaced pursuant to this guarantee shall, in each case, be guaranteed by VENDOR for a period of twelve (12) months from date of completion of repair or replacement. If the VENDOR fails to repair and correct or replace the defects of the works within a reasonable time, the PURCHASER shall be entitled to carry out such work by its own workmen or other contractors. All costs and expenses for and in connection with such repairs and correction or replacement of defects or meeting the specifications shall be for the account of the VENDOR. The VENDOR shall not be obliged to make repairs or replacements which become necessary because of ordinary wear and tear normal corrosion or erosion due to operations exceeding design conditions.

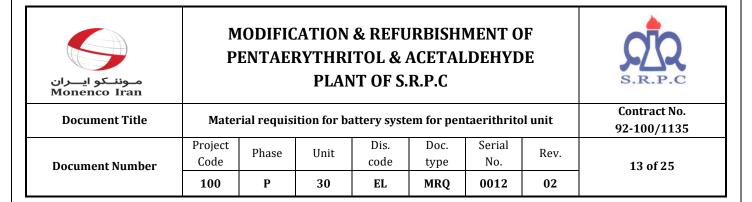
مـوننـكو ايـــران Monenco Iran	MODIFICATION & REFURBISHMENT OF PENTAERYTHRITOL & ACETALDEHYDE PLANT OF S.R.P.C						S.R.P.C	
Document Title	Material requisition for battery system for pentaerithritol unit							Contract No. 92-100/1135
Document Number	Project Code	Phase	Unit	Dis. code	Doc. type	Serial No.	Rev.	12 of 25
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4.10.3. In the event that any item or items of materials do not perform according to the design as set forth in the specifications and data sheets, the VENDOR shall repair or replace or cause SUBVENDORs to repair or replace such item or items of materials or correct defective installation at their own expense.

5. INSTRUCTION TO BIDDERS (ITB)

The proposed bid for carrying out the scope of work and supply of equipment and systems specified in this document shall provide the following information as minimum requirement for bid evaluation purposes: (All documents shall be in English language).

- ☑ Complete bill of material together with the quantities and prices as per format of the equipment and materials take offs including labeling provided in this document. VENDOR shall identify all exception, clarification and deviations (minor and major) to the tender documents. The VENDOR shall specify all the exceptions and deviations taken to this document. If no exception is noted it will be considered that the VENDOR complies fully with this document
- ✓ Technical specification and descriptions of the systems and equipment considered in the proposal.
- ☑ Detail drawing and calculation of systems and equipment.
- ☑ Indication of the scope of work (engineering, procurement / fabrication, and delivery) schedule to site monthly after award of contract.
- Spare parts list for commissioning / start up, two (2) years and capital of plant operation.
- ✓ Special tools list.
- **☑** Consumable materials.
- ☑ Utility list.
- ☑ List of all projects completed in the last ten years.
- ☑ Quality control plan (Q.C.P).

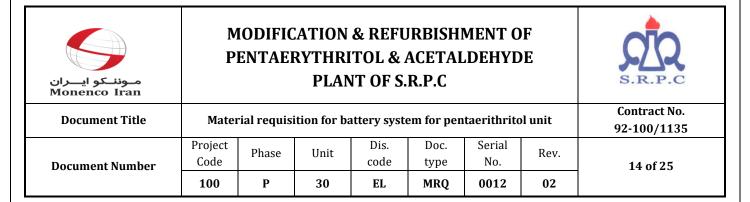


VENDOR shall provide the required number of personnel for the erection and mechanical testing, pre-commissioning and commissioning, start-up and initial operation of the package, so as to demonstrate and proved the specified guarantees. VENDOR shall train the company's personnel to assist in the pre-commissioning and commissioning, start-up, operation and maintenance of the package VENDOR shall provide the necessary supervisory personnel at sites in time so as to meet the requirements of the time schedule.

Note: The VENDOR shall submit his technical and commercial proposals based on the information provided and requirements specified throughout this document.

5.1. Bidding Stage

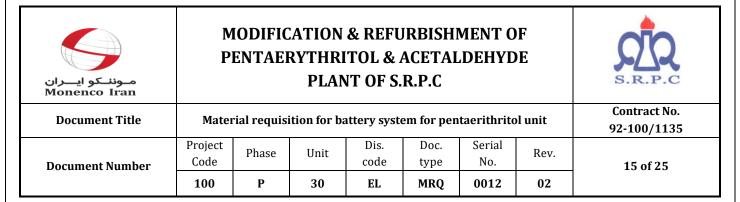
- **5.1.1.** Each quoted item shall be in strict accordance with requirements of this requisition and all its attachments.
- **5.1.2.** VENDOR shall fill in and sign "BID CHECK LIST" Item No 5.3 of this requisition and return it with his quotation.
- **5.1.3.** VENDOR shall sign and furnish the list of all deviations to this requisition and its attachments (if any) with his quotation.
- **5.1.4.** VENDOR to furnish his "QUALITY ASSURANCE MANUAL" and/or his ISO-9000 series certificate from the international recognized authorities
- **5.1.5.** VENDOR to furnish (within the bid) his reference list to prove his experience in the field of this requisition's scope of service and work
- **5.1.6.** Price breakdown of VENDOR's quotation shall be based on main and option items listed in "Scope of supply and work", stated in the requisition.
- **5.1.7.** VENDOR shall fill in and sign the "CERTIFICATE OF ORIGIN" and return with the quotation (If applicable).
- **5.1.8.** Where erection or site supervision is requested, VENDOR shall state the daily rate in addition to the required man-days necessary site supervision for erection, pre-commissioning, commissioning, and start up (accommodation, meals and local transportation to /from job site will be provided at no cost to VENDOR).
- **5.1.9.** VENDOR shall fill in the PURCHASER's engineering data sheet formats attached to this requisition and include them in the quotation.



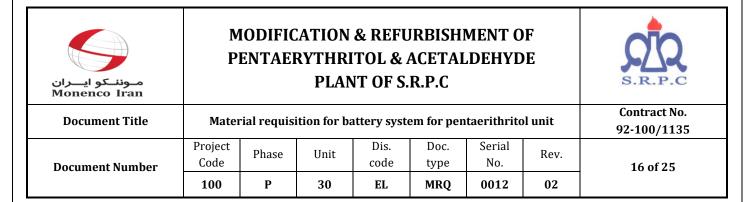
- **5.1.10.** VENDOR shall quote and provide spare part for pre-commissioning, commissioning, startup, two years normal operation and capital spare part separately in the "MINIMUM REQUIREMENT OF SPARE PART" based on VENDOR's experience.
- **5.1.11.** VENDOR's proposed list shall at any condition, cover the minimum percentage of the required spare part stated in table of item No.2 "REQUISITION FOR INQUIRY" forms.
- **5.1.12.** In case of any inconsistency between the documents, VENDOR shall consider the following priority for technical documents:
 - 1) Material requisition
 - 2) Data sheets
 - 3) Specification
 - 4) International standards
 - 5) VENDOR's practice
- **5.1.13.** VENDOR shall in his quotation highlight the inconsistencies for the PURCHASER's attention and approval.
- **5.1.14.** For commercial conditions of the bid (availability period, packing, guarantee, LC opening, price validity, etc) Please refer to procurement items of the attachments.
- **5.1.15.** In case of applying SUBVENDORs in order to perform part of the job the VENDOR shall provide the SUBVENDOR list and submit it to PURCHASER for review and approval.

5.2. Ordering Stage

- **5.2.1.** VENDOR's quotation, catalogues, calculation, drawings and documents shall be in "English language".
- **5.2.2.** Engineering units of measurement in VENDOR's documents shall be to the same standard as those stated in specification attached to the requisition (Mainly SI units).
- **5.2.3.** VENDOR shall follow the attached codes and standard as per attachment No.2.
- **5.2.4.** Document indicated in "RFD" (REQUIREMENT FOR DOCUMENT) form shall be provided by VENDOR with the required number and in time limits state in the same sheet and as per instructions stated.



- **5.2.5.** Materials covered with this requisition shall be available for delivery if applicable, not later than [to be specified later]. VENDOR shall provide a "MANUFACTURING AND DELIVERY SCHEDULE" and furnish in the time of order considering the stated date. A preliminary schedule to be also provided with quotation
- **5.2.6.** After order placement VENDOR shall carefully fill in the SPIR (spare parts interchangeability record) form with the list of spare parts approved by PURCHASER.
- **5.2.7.** All the offered items shall be inspected and tested according to the extent stated in "DC & AC UPS TECHNICAL SPECIFICATIONS" form attached.
- **5.2.8.** Shipment cannot be made without written approval from the PURCHASER as "Release note for shipment".
- **5.2.9.** For inspection please refer to relevant procedure submitted together with this MR.
- **5.2.10.** All PURCHASER's obligations under "INSPECTION PROCEDURE" shall be accepted by VENDOR and considered in his inspection procedure.
- **5.2.11.** Locally mounted equipment shall be designed and manufactured to withstand the local conditions and utilities specification.
- **5.2.12.** Equipment shall be provided with a stainless steel name plate with the following data printed on them:
 - **☑** PURCHASER
 - ☑ Equipment tag No
 - ✓ Manufacturer's name, model No., serial No., date of manufacture
 - **☑** Design condition
 - ☑ Operating data
 - ☑ Degree of protection
 - Certifications
 - ☑ Other data as indicated in name plate of std. drawing enclosed in this
 - **☑** Document
- **5.2.13.** Besides to all other document stated in RFD form, VENDOR shall supply "QUALITY DOSSIER", including design calculations, welding procedure,



welder's qualifications (if applicable), material test certificates, inspection certificates etc.

5.2.14. LIABILITY

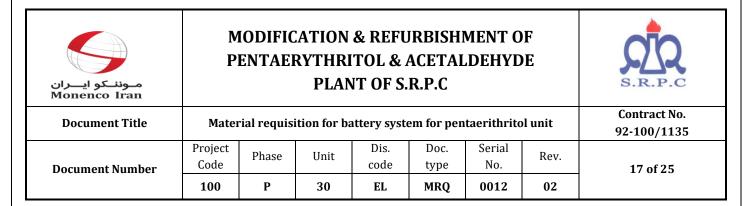
VENDOR shall be liable (without formal notice of non-compliance being required) for any loss or damage incurred by PURCHASER and/or OWNER due to VENDOR or SUBVENDORs non-compliance with the terms and condition of this requisition.

5.3. Bidding Check List

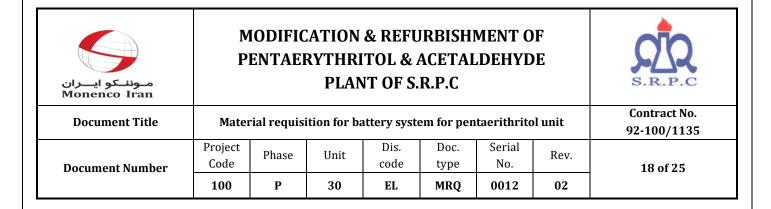
NOTE 1: This sheet is to be returned by bidder with technical quotation

NOTE 2: The numbers in brackets, refers to notes stated in "instruction to bidders (ITB) in item no.5

Item		Yes	No	Not applicable
1	Have you included in your quotation :			
1.1	Bid technical check list (5.1.2)			
1.2	Letter of conformity (5.1.3) (Statement of conformity and deviations).			
1.3	Quality assurance manual (or certificate) (5.1.4)			
1.4	Reference list (5.1.5)			
1.5	Price breakdown (5.1.6)			
1.6	Certificate of origin (5.1.7)			
1.7	Site service daily rate and man-days (5.1.8)			
1.8	Spare part list (5. 1.10)			
1.9	SUBVENDOR list (5.1.14)			
1.10	Priority of documents (5.1.12)			
2	Have you studied, taken into account and will you follow instructions stated in the requisition notes regarding			
2.1	English language (5.2.1)			
2.2	Units of measurement (5. 2.2)			



Item		Yes	No	Not applicable
2.3	Latest manufacturing standard (5.2.3)			
2.4	Document requirements (5.2.4)			
2.5	Manufacturing and delivery schedule (5.2.5)			
2.6	Filling the SPIR form after P.O. Placement (5.2.6)			
2.7	Inspection requirements (5.2.7)			
2.8	Shipment approval (5.2.8)			
2.9	Environmental condition (5.2.11)			
2.10	Name plate (5.2.12)			
2.11	Quality dossier (5.2.13)			
2.12	Liability (5.2.14)			



6. INSPECTION AND TESTS

6.1. Scope and General Condition of Inspection

Inspection and Test shall be carried out at Vendor's shop as per relevant "ITP" and applicable codes and standard. ITP shall be provided by vendor and will be approved by purchaser/owner.

6.2. Definitions

INSPECTOR

Means PURCHASER, OWNER and/or his "THIRD PARTY" inspector as will be introduced after order placement

HOOLD (INSPECTION) POINT (HP)

The designated feature is to be inspected by inspector.

VENDOR / manufacturer is to notify inspector 20 days prior to performing the designated feature. Activities may not proceed ("hold") until the continuation of work is permitted by PURCHASER or waived in writing by PURCHASER ("inspection waiver").

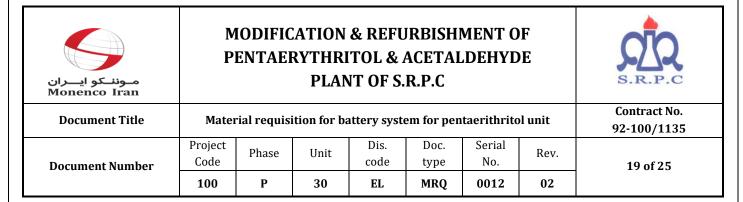
WITNESS (INSPECTION) POINT (WP)

The designated feature is to be witnessed by inspector.

VENDOR / manufacturer is to notify inspector 20 days, prior to performing the designated feature. If the inspector fails to be present, activities may proceed without witnessing or waiving of the inspection as will be decided by PURCHASER.

RANDOM (INSPECTION) POINT (RP)

The inspection of the designated feature will take place during inspection visits as a standard performance.



VENDOR/manufacturer does not have to notify inspector prior to performing the designated feature. Activities may proceed without witnessing or waiving by inspector.

REVIEW DOCUMENTATION (RD)

Documentation will be reviewed by inspector.

6.3. Waived Inspection

For the designated feature, shop inspection is not carried out, as will be decided by PURCHASER.

6.4. Others

Unless otherwise stated in the specification, data sheet and/or formal sketch, the under mentioned shall be followed.

- ☑ All bolting threads used shall be of ISO metric system.
- All surfaces shall be painted, according to technical specification for painting.
- ☑ Spare parts shall be packed separately from the equipment.
- As an option Iranian VENDOR shall prepare his offer for the following options:
- Exactly as per this material requisition.
- Equipment material to be procured by PURCHASER. In this case VENDOR shall issue shop and cutting card drawings for PURCHASER review and approval.

7. REQUIREMENT FOR DOCUMENTS (RFD FORM)

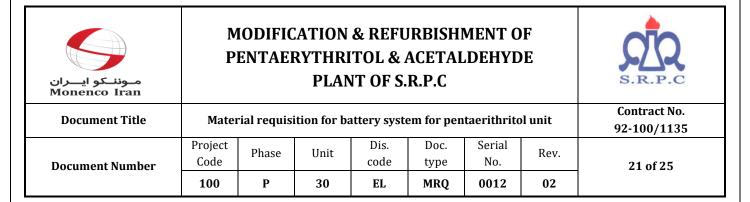
- Any document sent by VENDOR shall have its own transmittal sheet. Each transmittal sheet shall cover only the documents of one purchase requisition.
- All documents, drawings and calculations, shall proffer in original and editable format, also if preliminarily or for approval.

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Document Title	Mater	rial requis	Contract No. 92-100/1135					
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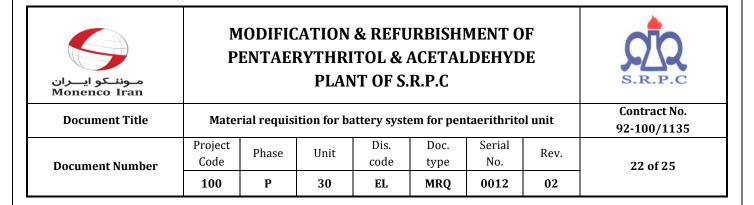
☑ The delivery schedule and number of copies of documentation shall be in accordance with the following table, unless/otherwise indicated on purchase order.

Table RFD: Requirement for documents (RFD) [minimum requirements and it shall be fitted with disciplines &/ equipment, technical RFD shall be approved by OWNER in the stage of MR issuing].

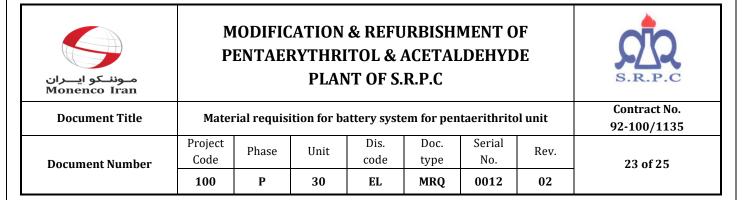
ITEM NO.	DESCRIPTION	With BID							
		N/TYP E	FIRST ISSUE			FI	ВООК		
			N/TYPE	DUE DATE	STATUS	N/TYPE	DUE DATE	STATUS	VENDOR DATA BOOK
		(Note1)	(Note1)	(Note2)	(Note4)	(Note1)	(Note 2)	(Note4)	
1.	GENERAL DOCUMENTS								
1.1	List and schedule of VENDORS documents and drawings		2/C/E	2W	F				
1.2	Manufacturing schedule per equipment (including design, procurement, fabrication, test and packing, delivery)		2/C/E	2W	В				
1.3	SUBVENDOR list	2/C							3/C/E
1.4	Un-priced copy of main sub-orders	2/C	2/C/E		F				
1.5	VENDOR's references list	2/C							
1.6	Brochures & catalogues containing description of MV switchboard & all other accessories	2/C							3/C/E
1.7	Erection, installation, shipping & storage document & instructions	2/C							3/C/E
1.8	Operation & maintenance manual	2/C							3/C/E



		With BID			INSTAL	LMENT			
		N/TYP E	F	IRST ISSU	JE	FI	A BOOK		
ITEM NO.	DESCRIPTION		N/TYPE	DUE DATE	STATUS	N/TYPE	DUE DATE	STATUS	VENDOR DATA BOOK
		(Note1)	(Note1)	(Note2)	(Note4)	(Note1)	(Note 2)	(Note4)	
1.9	Recommended spare part list for two years operation	2/C	2/C/E		В	2/C/E		D	3/C/E
1.10	VENDOR's procurement status (monthly)		2/C/E		F				
1.11	Monthly progress report		2/C/E		F				
1.12	List of spare parts for erection , commissioning and start-up	2/C	2/C/E		В	2/C/E		D	3/C/E
2.	ELECTRICAL DOCUMENTS	5							
2.1	Related drawings such as single line diagram, general arrangement, control diagram &		2/C/E	4W	В	2/C/E		С	3/C/E
2.2	List of major & auxiliary components		2/C/E	4W	В	2/C/E		С	3/C/E
3.	INSPECTION DOCUMENTS	5							
3.1	Fabrication and quality control plan	2/C	2/C/E		В	2/C/E		С	3/C/E
3.5	Inspection and test plan		2/C/E		В	2/C/E		С	3/C/E
3.6	All testing procedure		2/C/E		В	2/C/E		С	3/C/E
3.7	All testing report		2/C/E		F				3/C/E
3.8	Material certificates / certificate of origin as per relevant code and		2/C/E		В				3/C/E



ITEM NO.	DESCRIPTION	With BID			, BOOK				
		N/TYP E	FIRST ISSUE			FI			
			N/TYPE	DUE DATE	STATUS	N/TYPE	DUE DATE	STATUS	VENDOR DATA BOOK
		(Note1)	(Note1)	(Note2)	(Note4)	(Note1)	(Note 2)	(Note4)	
	standard								
4.	FINAL AND SHIPPING DO	CUMENT	1						
4.1	Final book index		2/C/E		В	2/C/E		С	3/C/E
4.2	Final data book (6)		2/C/E		В				3/C/E
4.3	Un-priced copy of main sub-orders		2/C/E		В	2/C/E		С	3/C/E
4. 4	Recommendations for protection during transportation		2/C/E		В				3/C/E
4.5	Heavy and/or large equipment drawings with weight ,transportation drawings		2/C/E		В	2/C/E		С	3/C/E
4.6	Pickling and passivation procedure (if applicable)		2/C/E		В	2/C/E		С	3/C/E
4.7	Filled out SPIR forms		2/C/E		В	2/C/E		С	3/C/E
4.8	VENDOR mechanical catalogue		2/C/E		F				3/C/E
4.9	Packing list		2/C/E		В				3/C/E
4.10	Shipping documents, transport authorization		2/C/E		В	2/C/E		D	3/C/E
4.11	Origin certificates of equipment		2/C/E		В			D	3/C/E
4.12	Release note		2/C/E		F				3/C/E



Notes:

1) N: Number of document

Type: C=Copy, R=Reproducible, E=Electronic Copy (Native)

- 2) W=Calendar Week, M=Calendar Month
- 3) Installments to payment schedule established by purchaser according to vendor's work progress and to delivery of relevant document
- 4) Status code:
 - F = Preliminary or for information
 - B = For approval
 - C = Final and approved documents (all company's comments incorporated)
 - D = As delivered

Any document returned to vendor with comments must be reissued for approval

- 5) NDT: Non-Destructive Test
- 6) Vendor data book includes final drawings/documents, approved deviation, unpriced purchase order & sub-purchase order and maintenance dossier etc.
- 7) Due dates shall be intended "after order", unless different specified.
- 8) For document link QA one set.
- 9) Vendor shall follow all requirement of EN-10204 for material, inspection, etc.

8. Attachments

ATTACHMENT NO.1

SPARE PART LIST AND INTERCHANGEABILITY RECORD (SPIR)

ATTACHMENT NO.2

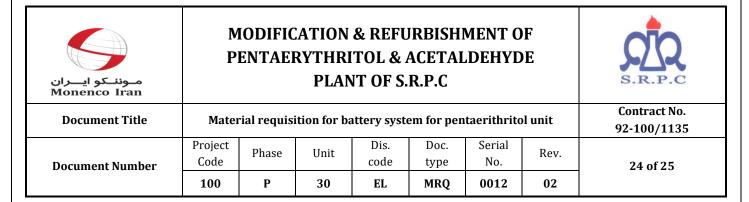
INSPECTION PROCEDURE

ATTACHMENT NO.3

LOCAL CONDITION AND UTILITIES SPECIFICATION

ATTACHMENT NO.4

CODES AND STANDARDS AND RELATED GENERAL AND ENGINEERING SPECIFICATION



ATTACHMENT NO.5

TECHNICAL SPECIFICATION FOR PAINTING*

ATTACHMENT NO.6

TECHNICAL SPECIFICATION FOR INSULATION*

ATTACHMENT NO.7

PENTAERYTHRITOL BATTERY SYSTEM DATA SHEETS

ATTACHMENT NO.8

MTO*

ATTACHMENT NO.9

PACKING, SHIPPING AND MARKING PROCEDURE

ATTACHMENT NO.10

ENGINEERING GENERAL SPECIFICATION OF NAME PLATE FOR ALL EQUIPMENTS*

ATTACHMENT NO.11

GENERAL TERMS AND CONDITION FOR LOCAL PURCHASE

ATTACHMENT NO.12

GENERAL TERMS AND CONDITION FOR FOREIGN PURCHASE*

ATTACHMENT NO.13

TECHNICAL SPECIFICATION FOR WELDING AND INSPECTION*

ATTACHMENT NO.14

PENTAERYTHRITOL DC & AC UPS SYSTEM TECHNICAL SPECIFICATIONS

ATTACHMENT NO.15

PENTAERYTHRITOL DC UPS & AC UPS CALCULATION ATTACHMENT NO.15.1 110 VDC UPS SIZING ATTACHMENT NO.15.2 220 VAC UPS SIZING

ATTACHMENT NO.16

PENTAERYTHRITOL 110 VDC UPS & 220 VAC UPS SLD ATTACHMENT NO.16.1 110 VDC UPS SLD ATTACHMENT NO.16.2 220 VAC UPS SLD

*:(Not Applicable)