



Sepehr Pasargad
Oil & Gas Production

شرکت بهره برداری نفت و گاز سپهر پاسارگاد

برگ گردش مدارک قرارداد ارائه خدمات تعمیرات و نگهداری



شماره قرارداد:

SP-CA-SE-PD-0051

نام پیمانکار:

شرکت توسعه صنایع تابان انرژی پاسارگاد

شماره الحاقی:

موضوع: تمدید زمانی افزایش مبلغ
 قرارداد سایر موارد

شماره قرارداد:

موضوع قرارداد: ارائه خدمات تعمیرات و نگهداری (دو ساله)

سطح اختیار:
 مدیران مدیر عامل مصوبه کمیسیون معاملات مصوبه هئیت مدیره NIOC
 نامه استعلام رسمی
- شماره جلسه کمیسیون معاملات: ۱۴۰۴/۰۳/۳
- تاریخ صورت جلسه: ۱۴۰۴/۰۱/۲۴
- شماره جلسه کمیسیون معاملات: ۱۴۰۴/۰۴/۴۵
- تاریخ صورت جلسه: ۱۴۰۴/۰۷/۰۱
- شماره جلسه کمیسیون معاملات: ۱۴۰۴/۰۴/۴۶
- تاریخ صورت جلسه: ۱۴۰۴/۰۷/۰۹
- شماره جلسه کمیسیون معاملات: ۱۴۰۴/۰۴/۴۷
- تاریخ صورت جلسه: ۱۴۰۴/۰۷/۱۲
- شماره جلسه کمیسیون معاملات: ۱۴۰۴/۰۴/۴۸
- شماره مصوبه هیأت مدیره: اعضاء نشده است
- شماره مصوبه کمیته مشترک (JMC): اعضاء نشده است تاریخ صورت جلسه:

نحوه اتفاقاد قرارداد:
 مناقصه عمومی استعلام بهاء
 مذاکره ترك تشریفات عدم الزام برگزاری مناقصه

مبلغ اولیه قرارداد: ۴,۹۷۶,۱۳۱.۲۰ دلار
- جمع مبالغ الحاقیه های قبل: -
- مبلغ این الحاقیه: -
- مبلغ کل قرارداد: ۴,۹۷۶,۱۳۱.۲۰ دلار
- مدت قرارداد: ۲ سال

شماره مناقصه:
SJOM-PGNROM-MTMP-TESE-0011
تعداد پیمانکاران دعوت شده واجد شرایط:
۵ شرکت
مبلغ پیشنهادی برندۀ مناقصه:
۴,۹۷۶,۱۳۱.۲۰ دلار

بررسی، امضاء، تأیید و تصویب
امضاء سند قرارداد هم‌زمان با امضای سند ترک ادعا لازم است

سایر پیشنهادات و اصله از پیمانکاران دعوت شده:

شماره	نام پیمانکار	مبلغ پیشنهادی (دلار)	تعداد پیشنهادات و اصله صحیح:	واحد متقاضی لجری: واحد مدیریت تولید	شماره مناقصه:
۱	شرکت بهره برداری و مدیریت پتروپارس آریا کیش	۴,۹۷۶,۱۳۲	۴ شرکت	SJOM-PGNROM-MTMP-TESE-0011	
۲	شرکت توسعه صنعت ایران افق	۷,۵۸۸,۷۴۰			
۳	شرکت بهره برداری و تعمیراتی مپنا	۵۰,۴۹,۹۶۶			
۴					
۵					
۶					

علاوه بر پیمانکاران فوق الذکر تعداد **۱** شرکت: شرکت راه اندازی و بهره برداری صنایع نفت (پیمانکار دیگر دعوت گردیده که نرخ ارائه ننموده اند.

توجه: مستدعی است به منظور تسریع فزاینده در راستای اجرای به موقع پروژه/خدمات فوق الذکر، استناد و مدارک پیوست را با ارجحیت مورد مدققه و بررسی قرارداده و نسبت به امضای قرارداد و ترک ادعا پیوست با توجه به حدود و اختیارات اقدام لازم را مبذول فرمائید.

توضیحات:

صورت جلسه کمیسیون معاملات

عنوان جلسه: گشایش پاکات "ج" مناقصه خرید ۱۲ عدد Pressure Switch به همراه دیافراگم سیل و مناقصه خرید DBB Valves و Special Ball Valves و تعیین برنده و درخواست تصویب خواهی مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله	شماره صورت جلسه: ۱۴۰۴/۰۳۳
ساعت شروع: ۱۴:۰۰	تاریخ برگزاری: ۱۴۰۴/۰۱/۲۴ ساعت پایان: ۱۷:۱۵
دییر جلسه: مهسا علیانی	محل برگزاری: ساختمان همیلا، طبقه ۱۵، واحد ۱۵۱۱، سالن جلسات

اعضاء کمیسیون معاملات شرکت بهره‌برداری نفت و گاز سپهر پاسارگاد	مدعوین جلسه
نام و نام خانوادگی	سمت
آقای سید محمد کاظم بازگشا	۱. رئیس کمیسیون
آقای سعید غفاری	۲. عضو اصلی کمیسیون
آقای غلامرضا علیزاده عطار	۳. عضو اصلی کمیسیون
خانم سمیه باقرلو	۴. عضو اصلی کمیسیون
آقای آرش پورشوستر	۵. عضو اصلی کمیسیون
آقای وحید قادری	۶. عضو علی البدل کمیسیون
خانم مهسا علیانی	۷. عضو علی البدل کمیسیون

غائبین: -

دستور جلسه

- گشایش پاکات پیشنهادات "ج" مناقصه خرید ۱۲ عدد Pressure Switch به همراه دیافراگم سیل؛
- گشایش پاکات پیشنهادات "ج" مناقصه خرید DBB Valves و Special Ball Valves؛
- درخواست تصویب خواهی برگزاری مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله.

عناوین پیوستها

- گزارش کیته فنی و بازرگانی در خصوص بررسی مدارک فنی و اعلام نتیجه مناقصه خرید Special Ball Valves و DBB Valves.
- مناقصه خرید ۱۲ عدد Pressure Switch به همراه دیافراگم سیل (پیوست شماره ۱)
- تصویب خواهی مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله (پیوست شماره ۲)

امضای اعضاء

سمت: عضو علی البدل کمیسیون معاملات نام و نام خانوادگی: جناب آقای وحید قادری امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: جناب آقای آرش پورشوستر امضا و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: جناب آقای غلامرضا علیزاده عطار امضا و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: جناب آقای سید سعید غفاری امضاء و تاریخ:	سمت: رئیس کمیسیون معاملات نام و نام خانوادگی: جناب آقای سید کاظم بازگشا امضاء و تاریخ:
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امضای اعضاء

سمت: عضو علی البدل کمیسیون معاملات نام و نام خانوادگی: سرکار خانم مهسا علیانی امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: سمهیه باقرلو امضاء و تاریخ:
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ردیف	تصمیمات اتخاذ شده	مسئول	مهلت اقدام
۳	<p>درخواست تصویب خواهی اخذ مجوز برگزاری مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله</p> <p>تصویب خواهی شماره ۰۰ REV ۱۴۰۴/۱۲۳ POGP-1404- 030 مورخ ۱۴۰۴/۱۲۳ با موضوع ارائه خدمات تعمیرات و نگهداری از سوی واحد تولید جهت تصمیم گیری در کمیسیون مطرح گردید.</p> <p>در راستای تهیه استناد مناقصه مفاد زیر مصوب گردید:</p> <ul style="list-style-type: none"> - نحوه برگزاری مناقصه: مناقص محدود دو مرحله ای: - مدت زمان قرارداد: ۲ سال از تاریخ ابلاغ شروع به کار؛ - میزان ضریب تأثیر فنی و حداقل امتیاز مورد قبول: ضریب تأثیر فنی معادل ۶۰ و ضریب امتیاز فنی قابل قبول ۶۵ می باشد. - روش پرداخت به پیمانکار: قرارداد به صورت ارزی بوده و در صورت پرداخت به ریال، نرخ تسعیر ارز معادل نرخ حواله خرید سامانه سنا در یک روز قبل از پرداخت خواهد بود. - پیش پرداخت: معادل ۵٪ مبلغ کل قرارداد به عنوان پیش پرداخت در قبال ضمانتنامه بانکی معتبر و مورد تائید کارفرما مصوب می گردد. - تضمین انجام تعهدات: معادل ۵٪ مبلغ کل قرارداد به عنوان تضمین انجام تعهدات در قبال ضمانتنامه بانکی معتبر و مورد تائید کارفرما مصوب می گردد؛ - سپرده حسن انجام کار: ۱۰٪ مبلغ کل قرارداد به عنوان تضمین حسن انجام کار با عنوان سپرده از هر صورت وضعیت پیمانکار کسر در پایان قرارداد، پس از تائید کارفرما به پیمانکار پرداخت خواهد شد؛ - امکان ارائه ضمانتنامه ریالی: در صورت ارائه ضمانتنامه انجام تعهدات به صورت ریالی، نرخ تبدیل نرخ خرید حواله اعلامی سامانه سنا در زمان ابلاغ نامه پذیرش پیشنهاد قیمت به علاوه ۳٪ بالاسری ممکن خواهد بود؛ - امکان افزایش یا کاهش حجم قرارداد: تا ۲۵٪ ± حجم و مبلغ اولیه کل قرارداد؛ - روش حل اختلاف: داوری (سه نفره) با انتخاب دو داور از سوی هر یک از طرفین و انتخاب سر داور مرضی الطرفین؛ - اعلام برآورد مالی مناقصه: برآورد مالی به مناقصه گران اعلام می گردد؛ - بازه تغییرات دائمی قیمت مناقصه: بازه مورد پیشنهادات مالی ۱۵٪ ± می باشد؛ 		

امضا اعضا			
سمت: عضو علی البطل کمیسیون معاملات نام و نام خانوادگی: جناب آقای آرش وحید قادری امضا و تاریخ	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: جناب آقای آرش بورشوشتر امضا و تاریخ	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: جناب آقای آرش غلامرضا علیزاده عمار امضا و تاریخ	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: جناب آقای سید کاظم بازگشا امضا و تاریخ
امضا اعضا			
			سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: سرکار خانم مهسا علیانی امضا و تاریخ

ردیف	تعصیمات اتخاذ شده	مسئول	مهلت اقدام
	<ul style="list-style-type: none"> - تفصیل شرکت در مناقصه: تضمین شرکت در مناقصه ضمانتنامه بانکی معتبر مورد تائید کارفرما معادل مبلغ ۹۰,۰۰۰,۰۰۰ ریال می باشد; - شرکت های مورد تأیید: توسعه صنعت ایران افق، توسعه صنایع تابان انرژی، راه اندازی و بهره برداری صنایع نفت، بهره برداری و تعمیراتی مپنا، بهره برداری و مدیریت پتروپارس. 		

امضای اعضاء			
سمت: عضو علی البدل کمیسیون معاملات نام و نام خانوادگی: جناب آقای آرش وحید قادری امضا، و تاریخ	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: جناب آقای ارش بورسومشتر امضا، و تاریخ	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: جناب آقای غلامرضا غفاری امضا، و تاریخ	سمت: رئیس کمیسیون معاملات نام و نام خانوادگی: ستاب آقای سید گافشم بازگشایی امضا، و تاریخ
امضای اعضاء			
		سمت عضو علی البدل کمیسیون معاملات نام و نام خانوادگی: سیو کار خانم مهسا علیانی امضا، و تاریخ	سمت عضو اصلی کمیسیون معاملات نام و نام خانوادگی: سیو کار خانم مهسا علیانی امضا، و تاریخ

صورت جلسه کمیسیون معاملات

شماره صورت جلسه: ۱۴۰۴/۰۴۵	عنوان جلسه: تصویب به روزرسانی برآورد هزینه مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله																										
تاریخ برگزاری: ۱۴۰۴/۰۷/۰۱	ساعت پایان: ۱۵:۰۰	ساعت شروع: ۱۴:۰۰																									
محل برگزاری: ساختمان همیلا، طبقه ۱۵، واحد ۱۵۱۱، سالن جلسات	دبیر جلسه: مهسا علیائی																										
اعضاء کمیسیون معاملات شرکت پهله برداری نفت و گاز سپهر پاسارگاد																											
<table border="1"> <thead> <tr> <th>نام و نام خانوادگی</th> <th>سمت</th> <th>نام و نام خانوادگی</th> <th>سمت</th> </tr> </thead> <tbody> <tr> <td>آقای سید محمد کاظم بازگشا</td> <td>۱. رئیس کمیسیون</td> <td>آقای سید محمد کاظم بازگشا</td> <td>۱. رئیس کمیسیون</td> </tr> <tr> <td>آقای سعید غفاری</td> <td>۲. عضو اصلی کمیسیون</td> <td>آقای سعید غفاری</td> <td>۲. عضو اصلی کمیسیون</td> </tr> <tr> <td>آقای غلامرضا علیزاده عطار</td> <td>۳. عضو اصلی کمیسیون</td> <td>آقای ابوالفضل کرمی</td> <td>۴. عضو اصلی کمیسیون</td> </tr> <tr> <td>آقای آرش پورشوستر</td> <td>۵. عضو اصلی کمیسیون</td> <td>آقای وحید قادری</td> <td>۶. عضو علی البدل کمیسیون</td> </tr> <tr> <td>آقای مهسا علیائی</td> <td>۷. عضو علی البدل کمیسیون</td> <td></td> <td></td> </tr> </tbody> </table>				نام و نام خانوادگی	سمت	نام و نام خانوادگی	سمت	آقای سید محمد کاظم بازگشا	۱. رئیس کمیسیون	آقای سید محمد کاظم بازگشا	۱. رئیس کمیسیون	آقای سعید غفاری	۲. عضو اصلی کمیسیون	آقای سعید غفاری	۲. عضو اصلی کمیسیون	آقای غلامرضا علیزاده عطار	۳. عضو اصلی کمیسیون	آقای ابوالفضل کرمی	۴. عضو اصلی کمیسیون	آقای آرش پورشوستر	۵. عضو اصلی کمیسیون	آقای وحید قادری	۶. عضو علی البدل کمیسیون	آقای مهسا علیائی	۷. عضو علی البدل کمیسیون		
نام و نام خانوادگی	سمت	نام و نام خانوادگی	سمت																								
آقای سید محمد کاظم بازگشا	۱. رئیس کمیسیون	آقای سید محمد کاظم بازگشا	۱. رئیس کمیسیون																								
آقای سعید غفاری	۲. عضو اصلی کمیسیون	آقای سعید غفاری	۲. عضو اصلی کمیسیون																								
آقای غلامرضا علیزاده عطار	۳. عضو اصلی کمیسیون	آقای ابوالفضل کرمی	۴. عضو اصلی کمیسیون																								
آقای آرش پورشوستر	۵. عضو اصلی کمیسیون	آقای وحید قادری	۶. عضو علی البدل کمیسیون																								
آقای مهسا علیائی	۷. عضو علی البدل کمیسیون																										
غائبین: -																											
دستور جلسه																											
تصویب به روزرسانی برآورد هزینه مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله																											
عناوین پیوستها																											
<ul style="list-style-type: none"> - نامه مدیرعامل به رئیس محترم کمیسیون معاملات و اعلام برآورد به روز شده مناقصه (پیوست شماره ۱) - گزارش به روزرسانی شده برآورد مناقصه (پیوست شماره ۲) - درخواست تصویب خواهی به روزرسانی برآورد مناقصه (پیوست شماره ۳) 																											

امضای اعضاء				
سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: ابوالفضل کرمی امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: آرش پورشوستر امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: غلامرضا علیزاده امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: سید غفاری امضاء و تاریخ:	سمت: رئیس کمیسیون معاملات نام و نام خانوادگی: سید محمد کاظم بازگشا امضاء و تاریخ:
امضای اعضاء				
			سمت: عضو علی البدل کمیسیون معاملات نام و نام خانوادگی: وحید قادری امضاء و تاریخ:	

ردیف	تصمیمات اتخاذ شده
۱	<p>تصویب به روزرسانی برآوردهزینه مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله نامه شماره ۱۴۰۴/۱۶/۱۰۰۱ SPO-INT-1404/16/1001 مورخ ۲۹/۰۶/۱۴۰۴ مدیر عامل محترم در رابطه با بازبینی برآوردهزینه مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله در کمیسیون معاملات طرح و نظر به توضیحات واحد مقاضی (مدیر تولید) در خصوص لزوم به روزرسانی برآوردهزینه مناقصه، کمیسیون معاملات با بروزرسانی مبلغ برآورد به مبلغ ۵,۸۵۴,۲۷۲ دلار (به شرح جزئیات پیوست شماره ۲) موافقت نمود.</p> <p>مقرر گردید بر اساس دستور العمل برگزاری مناقصه، برآوردهزینه مناقصه گران اعلام و همچنین، مراتب تائید کارفرمای به صورت رسمی و مكتوب در خصوص برآوردهزینه مناقصه دریافت گردد.</p>

امضای اعضاء				
سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: ابوالفضل کرمی امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: آرش پورشوستر امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: غلامرضا علیزاده امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: سیدی شفیعی شفیعی امضاء و تاریخ:	سمت: رئیس کمیسیون معاملات نام و نام خانوادگی: سید محمد کاظمی امضاء و تاریخ:
امضای اعضاء				
سمت: عضو علی البديل کمیسیون معاملات نام و نام خانوادگی: مهسا علیانی امضاء و تاریخ:	سمت: عضو علی البديل کمیسیون معاملات نام و نام خانوادگی: وحید قادری امضاء و تاریخ:			

صورت جلسه کمیسیون معاملات

عنوان جلسه: گشایش پاکات مناقصات به شرح دستور جلسه	ساعت پایان: ۱۶:۰۰	ساعت شروع: ۱۴:۰۰
شماره صورت جلسه: ۱۴۰۴/۰۴۶		
تاریخ برگزاری: ۱۴۰۴/۰۷/۰۶		
محل برگزاری: ساختمان همیلا، طبقه ۱۵ واحد ۱۵۱۱، سالن جلسات		
دبیر جلسه: مهسا علیائی		
اعضاء کمیسیون معاملات شرکت بهره‌برداری نفت و گاز سپاهر پاسارگاد		
نام و نام خانوادگی	نام و نام خانوادگی	نام و نام خانوادگی
۱. رئیس کمیسیون آقای سید محمد کاظم بازگشا	۲. عضو اصلی کمیسیون آقای سعید غفاری	۳. عضو اصلی کمیسیون آقای غلامرضا علیزاده عطار
۴. عضو اصلی کمیسیون آقای ابوالفضل کرمی	۵. عضو اصلی کمیسیون آقای آرش پورشوستر	۶. عضو علی البدل کمیسیون آقای حمید قادری
۷. عضو علی البدل کمیسیون خانم مهسا علیائی		
غایبین: آقای ابوالفضل کرمی		
دستور جلسه		
<p>- گشایش پاکات "الف" و "ب" مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله؛</p> <p>- گشایش پاکات "ج" مناقصه ارائه خدمات احداث مجموعه اداری، کلینیک، آتش نشانی و محوطه ورزشی؛</p> <p>- اصلاح عدد مندرج در بند ۱ صورت جلسه کمیسیون معاملات شماره ۱۴۰۴/۰۴۴ مورخ ۱۴۰۴/۰۶/۳۰</p>		
عناوین پیوستها		
<p>- تصویب خواهی گشایش پاکات "الف" و "ب" مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله (پیوست شماره ۱)</p> <p>- گزارش کمیته فنی و بازرگانی در خصوص بررسی پاکات "الف" و "ب" مناقصه ارائه خدمات احداث مجموعه اداری، کلینیک، آتش نشانی و محوطه ورزشی (پیوست شماره ۲)</p> <p>- صورت جلسه کمیسیون معاملات شماره ۱۴۰۴/۰۴۰ مورخ ۱۴۰۴/۰۶/۳۰ (پیوست شماره ۳)</p>		

امضای اعضاء				
سمت: عضو اصلی کمیسیون	سمت: عضو اصلی کمیسیون معاملات	سمت: عضو اصلی کمیسیون معاملات	سمت: عضو اصلی کمیسیون معاملات	سمت: عضو علی البدل کمیسیون معاملات
نام و نام خانوادگی: ابوالفضل کرمی (غالب)	نام و نام خانوادگی: آرش پورشوستر امضاء و تاریخ:	نام و نام خانوادگی: غلامرضا علیزاده عطار امضاء و تاریخ:	نام و نام خانوادگی: سعید غفاری لغایت شماره امضاء و تاریخ:	نام و نام خانوادگی: سید محمد کاظم بازگشا بازگشا امضاء و تاریخ:
امضای اعضاء				
سمت: عضو علی البدل کمیسیون معاملات	سمت: عضو علی البدل کمیسیون معاملات			
نام و نام خانوادگی: مهسا علیائی امضاء و تاریخ:	نام و نام خانوادگی: حمید قادری امضاء و تاریخ:			

ردیف	تصمیمات اتخاذ شده
کشايش پاکات مناقصه ارائه خدمات تعميرات و نگهداري دو ساله	<p>کشايش پاکات مناقصه ارائه خدمات تعميرات و نگهداري دو ساله</p> <p>پیرو بند ۳ مصوبه شماره ۱۴۰۴۰۳۳ کمیسیون معاملات مورخ ۱۴۰۴/۰۱/۲۴ در خصوص تصویب برگزاری مناقصه ارائه خدمات تعميرات و نگهداري دو ساله، پنج شركت (شركت توسعه صنعت ايران افق، شركت توسعه صنایع تابان انرژي، شركت راه اندازی و بهره برداری صنایع نفت، شركت بهره برداری و تعمیراتی مینا، شركت بهره برداری و مدیریت پتروپارس) به مناقصه مذکور دعوت شدند.</p> <p>نظر به انصراف کتبی شركت راه اندازی و بهره برداری صنایع نفت جهت حضور در مناقصه، پاکات الف (تصمیم شركت در مناقصه) و ب (پیشنهاد فني) چهار مناقصه گر باقیمانده ۱. توسعه صنعت ايران افق ۲. شركت توسعه صنایع تابان انرژي ۳. شركت بهره برداری و تعمیراتی مینا و ۴. شركت بهره برداری و مدیریت پتروپارس) به شرح جزئيات ذيل گشايش یافت.</p> <p>پس از بررسی و تائید تضامن شركت در مناقصه، پیشنهادات فني مناقصه گران بر اساس بند "ج" ماده ۱۸-۱ آئين نامه معاملات جهت بررسی به کميته فني و بازارگاني ارجاع گردید.</p>

محتواي پاکات "الف" (ضمانتنامه هاي شركت در مناقصه)

۱. توسعه صنعت ايران افق: ضمانتنامه بانکي معتبر به شماره ۹۴۱۷۳۲ صادره از بانک ملت
۲. شركت توسعه صنایع تابان انرژي: ضمانتنامه بانکي معتبر به شماره ۲۸۳۶ صادره از صندوق پژوهش و فناوري صنعت نفت
۳. شركت بهره برداری و تعمیراتی مینا: ضمانتنامه بانکي معتبر به شماره ۴۶۰۸۳ صادره از بانک رفاه کارگران
۴. شركت بهره برداری و مدیریت پتروپارس: ضمانتنامه بانکي معتبر به شماره ۳۵۱۳۰ صادره از بانک ملي ايران

محتواي پاکات "ب" (اسناد فني)

۱. توسعه صنعت ايران افق: مدارك به صورت خوانده و مورد قبول به همراه يك فلاش مدارك فني، گواهی تائيد صلاحیت، روزنامه رسمي تغييرات، گواهی امضای صاحبان امضای مجاز
۲. شركت توسعه صنایع تابان انرژي: مدارك به صورت خوانده و مورد قبول، گواهی امضای صاحبان امضای مجاز، يك عدد لوح فشرده حاوي مدارك فني
۳. شركت بهره برداری و تعمیراتی مینا: يك عدد لوح فشرده حاوي مدارك فني
۴. شركت بهره برداری و مدیریت پتروپارس: مدارك به صورت خوانده و مورد قبول به همراه يك فلاش مدارك فني

امضاي اعضاء				
سمت: عضو اصلی کمیسیون معاملات	سمت: عضو اصلی کمیسیون معاملات	سمت: عضو اصلی کمیسیون معاملات	سمت: عضو اصلی کمیسیون معاملات	سمت: رئيس کمیسیون معاملات
نام و نام خانوادگی: ابوالفضل گرمی (غالب)	نام و نام خانوادگی: آرش پورشوشتر	نام و نام خانوادگی: غلامرضا علیزاده	نام و نام خانوادگی: سعید غفاری	نام و نام خانوادگی: سید محمد کاظم بازگشایی
امضا و تاریخ:	امضا و تاریخ:	امضا و تاریخ:	امضا و تاریخ:	امضا و تاریخ:
امضاي اعضاء				
سمت: عضو على البديل کمیسیون معاملات	سمت: عضو على البديل کمیسیون معاملات	سمت: عضو على البديل کمیسیون معاملات	سمت: عضو على البديل کمیسیون معاملات	سمت: عضو على البديل کمیسیون معاملات
نام و نام خانوادگی: مسیح علیانی	نام و نام خانوادگی: مسیح علیانی	نام و نام خانوادگی: مسیح علیانی	نام و نام خانوادگی: مسیح علیانی	نام و نام خانوادگی: وحید قادری
امضا و تاریخ:	امضا و تاریخ:	امضا و تاریخ:	امضا و تاریخ:	امضا و تاریخ:

صورت جلسه کمیسیون معاملات

عنوان جلسه: به شرح دستور جلسه	شماره صورت جلسه: ۱۴۰۴/۰۴۷
ساعت شروع: ۱۲:۰۰	ساعت پایان: ۱۳:۳۰
ساعت پایان: ۱۳:۳۰	تاریخ برگزاری: ۱۴۰۴/۰۷/۰۹
دیر جلسه: مهسا علیائی	
محل برگزاری: ساختمان همبلاد طبقه ۱۱، واحد ۱۱۰۵، سالن جلسات	اعضاء کمیسیون معاملات شرکت بهره‌برداری نفت و گاز سپهر پاسارگاد
نام و نام خانوادگی	سمت
۱. آقای سید محمد کاظم بازگشا	آقای کامران قهرمانی مدیر واحد زنجیره تامین
۲. عضو اصلی کمیسیون	آقای سعید غفاری رئیس کمیته فنی و بازرگانی
۳. عضو اصلی کمیسیون	آقای غلامرضا علیزاده عطار نماینده محترم کارفرما
۴. عضو اصلی کمیسیون	آقای ابوالفضل گرمی نماینده محترم کارفرما
۵. عضو اصلی کمیسیون	آقای آرش بورشوستر نماینده محترم کارفرما
۶. عضو علی البدل کمیسیون	آقای وحید قادری نماینده محترم کارفرما
۷. عضو علی البدل کمیسیون	خانم مهسا علیائی
غائبین: -	
دستور جلسه	
- گشایش پاکات "ج" مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله	
عنوانین پیوستها	
- گزارش کمیته فنی و بازرگانی (پیوست شماره ۱)	

امضای اعضاء				
سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: ابوالفضل گرمی امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: آرش بورشوستر امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: غلامرضا علیزاده عطار امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: سعید غفاری امضاء و تاریخ:	سمت: رئیس کمیسیون معاملات نام و نام خانوادگی: سید محمد کاظم بازگشا امضاء و تاریخ:
امضای اعضاء				
			سمت: عضو علی البدل کمیسیون معاملات نام و نام خانوادگی: مهسا علیائی امضاء و تاریخ:	سمت: عضو علی البدل کمیسیون معاملات نام و نام خانوادگی: وحید قادری امضاء و تاریخ:

تصمیمات اتخاذ شده									ردیف																																																																																																																						
گشایش پاکات "ج" مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله																																																																																																																															
بر اساس بند ۱ مصوبه کمیسیون معاملات شماره ۱۴۰۴/۰۷/۰۶ مورخ ۱۴۰۴/۰۷/۰۶ پیشنهادات فنی مناقصه گران بر اساس بند "ج" ماده ۱-۱۸-۱ آئین نامه معاملات جهت بررسی به کمیته فنی و بازارگانی ارجاع گردید که نتیجه بررسی طی گزارش شماره SPMM-1404-0320 مورخ ۱۴۰۴/۰۷/۰۸ کمیته فنی و بازارگانی به شرح پیوست شماره ۱، به کمیسیون معاملات ارائه گردید.																																																																																																																															
پس از بررسی و تائید نتایج ارزیابی فنی کمیته فنی و بازارگانی، پاکات پیشنهادات مالی ۴ شرکت با حضور نمایندگان محترم کارفرما گشوده شد که نتایج صورت جلسه گشایش پاکات مالی به شرح ذیل می باشد:																																																																																																																															
<table border="1"> <caption>Technical, Contractual and Commercial Evaluation Table Scope of Work: Maintenance Services for Sepah-Jafar Field RJOM-PGNROM-MTMM-TESE-0011 ..Tender NO</caption> <thead> <tr> <th rowspan="2"># Criteria</th> <th rowspan="2">Acc. Score</th> <th colspan="2">Mapna Group Oil and Gas Services (MOGC)</th> <th colspan="2">Taban Energy Pasargad</th> <th colspan="2">Petropars Operation & Management Company (POMC)</th> <th colspan="2">Iran Oilgol Industrial Development Company (OID)</th> </tr> <tr> <th>Score Gained</th> <th>Status</th> <th>Score Gained</th> <th>Status</th> <th>Score Gained</th> <th>Status</th> <th>Score Gained</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>Total Technical and Contractual Score</td> <td>(G.E.)</td> <td>73.0</td> <td>بر اساس حقیقتی متوجه نمایندگان باشد</td> <td>80.10</td> <td>بر اساس حقیقتی متوجه نمایندگان باشد</td> <td>77.70</td> <td>بر اساس حقیقتی متوجه نمایندگان باشد</td> <td>88.35</td> <td>بر اساس حقیقتی متوجه نمایندگان باشد</td> </tr> <tr> <td>قیمت پیشنهادی متدرج در پاکت قیمت (C) - دلار</td> <td></td> <td>5,849,966</td> <td></td> <td>4,976,131.20</td> <td></td> <td>4,976,132</td> <td></td> <td>7,588,740</td> <td></td> </tr> <tr> <td>قیمت: تأثیر امنیت فنی و بازارگانی (۱)</td> <td></td> <td>0.6</td> <td></td> <td>0.6</td> <td></td> <td>0.6</td> <td></td> <td>0.6</td> <td></td> </tr> <tr> <td>امتیاز فنی بازارگانی (۲)</td> <td></td> <td>73.30</td> <td></td> <td>80.10</td> <td></td> <td>77.70</td> <td></td> <td>88.35</td> <td></td> </tr> <tr> <td>قیمت کاراز شده (L)</td> <td></td> <td>6,013,296</td> <td></td> <td>5,650,841.70</td> <td></td> <td>5,744,784.11</td> <td></td> <td>8,159,058.17</td> <td></td> </tr> <tr> <td>کمترین مبلغ قرار شده - دلار</td> <td></td> <td>5,650,841.70</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>شرکت توسعه صنایع ایران الروز یاسarkerad</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>مبلغ پرآورده مالک (دلار)</td> <td></td> <td>5,854,272</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>حد بالا - ۷,۱۵,۶۰ (دلار)</td> <td></td> <td>6,732,412.60</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>حد پایین - ۷,۱۵ (دلار)</td> <td></td> <td>4,976,131.2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>									# Criteria	Acc. Score	Mapna Group Oil and Gas Services (MOGC)		Taban Energy Pasargad		Petropars Operation & Management Company (POMC)		Iran Oilgol Industrial Development Company (OID)		Score Gained	Status	Score Gained	Status	Score Gained	Status	Score Gained	Status	Total Technical and Contractual Score	(G.E.)	73.0	بر اساس حقیقتی متوجه نمایندگان باشد	80.10	بر اساس حقیقتی متوجه نمایندگان باشد	77.70	بر اساس حقیقتی متوجه نمایندگان باشد	88.35	بر اساس حقیقتی متوجه نمایندگان باشد	قیمت پیشنهادی متدرج در پاکت قیمت (C) - دلار		5,849,966		4,976,131.20		4,976,132		7,588,740		قیمت: تأثیر امنیت فنی و بازارگانی (۱)		0.6		0.6		0.6		0.6		امتیاز فنی بازارگانی (۲)		73.30		80.10		77.70		88.35		قیمت کاراز شده (L)		6,013,296		5,650,841.70		5,744,784.11		8,159,058.17		کمترین مبلغ قرار شده - دلار		5,650,841.70								شرکت توسعه صنایع ایران الروز یاسarkerad										مبلغ پرآورده مالک (دلار)		5,854,272								حد بالا - ۷,۱۵,۶۰ (دلار)		6,732,412.60								حد پایین - ۷,۱۵ (دلار)		4,976,131.2								
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امضا اعضاء				
سنت: عضو علی البطل کمیسیون معاملات نام و نام خانوادگی: وحید قادری امضاء و تاریخ:	سنت: عضو علی البطل کمیسیون معاملات نام و نام خانوادگی: مهسا علیزاده امضاء و تاریخ:			

ردیف	تصمیمات اتخاذ شده
	<p>شایان ذکر است مطابق با درخواست نمایندگان محترم کارفرما ۵ امتیاز فنی به شرکت بهره برداری و پشتیبانی فنی نفت و گاز مپنا اضافه گردید.</p> <p>کمیسیون مصوب نمود پیشنهادات مالی شرکت توسعه صنایع تابان انرژی پاسارگاد و شرکت بهره برداری و مدیریت پتروپارس (به عنوان پایین ترین قیمت های تراز شده مطابق با بند "ب" ماده ۳-۲۰-۵ آئین نامه معاملات شرکت، جهت بررسی قیمت ها و کنترل مبانی آن به کمیته فنی و بازارگانی ارجاع گردد.</p>

امضا اعضا				
سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: سید محمد کرمی امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: آرش پورشوستر امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: غلامرضا علیزاده عطار امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: سید عباس امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: سید محمد کاظمی بازگشا امضاء و تاریخ:
امضا اعضا				
			سمت: عضو علی البدل کمیسیون معاملات نام و نام خانوادگی: حسین علیان امضاء و تاریخ:	سمت: عضو علی البدل کمیسیون معاملات نام و نام خانوادگی: حمید قادری امضاء و تاریخ:

صورت جلسه کمیسیون معاملات

عنوان جلسه: تعیین برنده مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله	شماره صورت جلسه: ۱۴۰۴-۰۴۸	ساعت شروع: ۱۴:۰۰
تاریخ برگزاری: ۱۴۰۴/۰۷/۱۲	ساعت پایان: ۱۵:۰۰	
محل برگزاری: ساختمان همیلا، طبقه ۱۵، واحد ۱۵۱۱، سالن جلسات	دبیر جلسه: مهسا علیائی	
اعضاء کمیسیون معاملات شرکت پهروبرداری نفت و گاز سپهر پاسارگاد		
مدعوین جلسه	نام و نام خانوادگی	نام و نام خانوادگی
سمت	نام و نام خانوادگی	سمت
مدیر واحد زنجیره تامین	۱. آقای کامران قهرمانی	آقای سید محمد کاظم بازگشا
رئیس کمیته فنی و بازرگانی	۲. آقای بهمن احدی منافی	۲. عضو اصلی کمیسیون
	آقای غلامرضا علیزاده عطار	۳. عضو اصلی کمیسیون
	آقای ابوالفضل کرمی	۴. عضو اصلی کمیسیون
	آقای آرش پورشوستر	۵. عضو اصلی کمیسیون
	آقای وحید قادری	۶. عضو علی البدل کمیسیون
	خانم مهسا علیائی	۷. عضو علی البدل کمیسیون
غائبین: -		
دستور جلسه		
تعیین برنده مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله		
عنوان پیوستها		
گزارش کمیته فنی و بازرگانی در خصوص بررسی پیشنهادات مالی در مناقصه گر مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله		

امضای اعضاء				
سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: ابوالفضل کرمی امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: آرش پورشوستر امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: غلامرضا علیزاده عطار امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: سعید شفابی امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: سید محمد کاظم بازگشا امضاء و تاریخ:
امضای اعضاء				
سمت: عضو علی البدل کمیسیون معاملات نام و نام خانوادگی: وحید قادری امضاء و تاریخ:				

ردیف	تصمیمات اتخاذ شده
۱	<p>تعیین برنده مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله پیرو بند ۱ مصوبه شماره ۱۴۰۴۷ کمیسیون معاملات مورخ ۱۴۰۴/۰۷/۰۹ در خصوص ارجاع پیشنهادات مالی دو مناقصه گر حائز کمترین مبلغ پیشنهادی مناقصه ارائه خدمات تعمیرات و نگهداری دو ساله به کمیته فنی و بازارگانی، گزارش کمیته مذکور به شماره SPMM-1404-324 مورخ ۱۴۰۴/۰۷/۱۲ (پیوست شماره ۱) با موضوع بررسی پیشنهادات مالی دو شرکت بهره برداری و مدیریت پتروپارس آریا کیش و شرکت توسعه صنایع تابان انرژی پاسارگاد (بر اساس بند "ب" ماده ۵-۴ آئین نامه معاملات)، در جلسه طرح و با عنایت به موارد مندرج در گزارش مذکور، پایین ترین قیمت پیشنهادی (شرکت توسعه صنایع تابان انرژی پاسارگاد) با جمیع شرایط مناقصه به مبلغ ۴,۹۷۶,۱۳۱.۲۰ دلار به عنوان برنده تعیین گردید.</p> <p>مقرر گردید بر اساس مفاد آئین نامه معاملات و با توجه به سطح معامله، موضوع جهت اخذ تائیدیه های لازم به مدیر عامل محترم شرکت ارجاع گردد.</p>

امضای اعضاء				
سمت: عضو اصلی البدل کمیسیون معاملات نام و نام خانوادگی: ابوالفضل کرمی امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: آرش پورشوستر امضاء و تاریخ: <i>پورشوستر</i>	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: غلامحسین علیزاده عطار امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: سعید غفاری امضاء و تاریخ:	سمت: عضو اصلی کمیسیون معاملات نام و نام خانوادگی: سید محمد کاظم پاکشنا امضاء و تاریخ:
امضای اعضاء				
				سمت: عضو علی البدل کمیسیون معاملات نام و نام خانوادگی: مسیحه خلیلی امضاء و تاریخ:
امضای اعضاء				
				سمت: عضو علی البدل کمیسیون معاملات نام و نام خانوادگی: وحید قادری امضاء و تاریخ:

 <p>Sepehr Pasargad Oil & Gas Production</p>	<p>Sepehr Pasargad Oil and Gas Production Company</p>	 <p>TABAN PASARGAD</p>
<p>Contract No: SP-CA-SE-PD-0051</p>	<p>Maintenance Services Contract</p>	<p>Page 1 of 33</p>

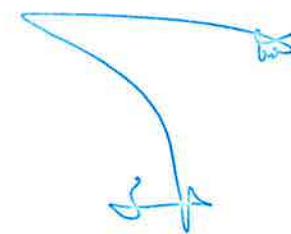
Maintenance Services Contract for Sepehr-Jufair Field

Between

Sepehr Pasargad Oil and Gas Production Company

And

Taban Energy Pasargad Industries Development Company



 <p>Sepehr Pasargad Oil & Gas Production</p>	<p>Sepehr Pasargad Oil and Gas Production Company</p>	
<p>Contract No: SP-CA-SE-PD-0051</p>	<p>Maintenance Services Contract</p>	<p>Page 2 of 33</p>

Maintenance Services for Sepehr-Jufair Field

This Contract is made and entered into force as of day of October 2025 in Tehran, Islamic Republic of Iran by and between:

Sepehr Pasargad Oil and Gas Production Company (joint stock), a Company registered and existing under the laws of the Islamic Republic of Iran, with its principal office situated at No.1511,15th floor, No.38, Hamila Tower, Fallah Zadeh (Hamila) Blvd. Punak, Tehran, Iran, Registration No. 618860, National ID and Commercial Code. 14012590403 (hereinafter called "Company") on the one part;

And

Taban Energy Pasargad Industries Development Company ((joint stock)) a company registered and existing under the laws of Islamic Republic of Iran, whose registered office is located at No. 512, 5th floor, No.38, Hamila Tower, Fallah Zadeh (Hamila) Blvd. Punak, Tehran, Iran, Registration No. 374476, National ID.: 10320254113 and Commercial code: 411371759765 (hereinafter called "Contractor") on the other part.

Company and Contractor are hereinafter sometimes referred to individually as "Party" and collectively as "Parties" which expression shall include their respective successors under this Contract.

WHEREAS:

- A- Company shall perform production operations of fields called Sepehr-Jufair Field located in the northeastern part of the Abadan Plain and the Company is willing to engage the expertise and services of an independent and experienced contractor capable of performing Maintenance Services in Sepehr- Jufair Field.
- B- Contractor represents that it has the necessary management, supervisory, skilled and specialized personnel, the experience and qualifications, the ability to provide all required goods, equipment, tools and services needed to perform and complete the activities in a professional manner, with good workmanship, great diligence and accordance with best and latest international oil and gas industry standards and practices;
- C- Contractor has visited the site(s) where the Work, wholly or partly, will be performed and it acknowledges that it is fully familiar with the nature land, environment, access to operation area, roads, railways, ports, landing strips and all means of communications and access, labor, equipment and material availability, residence requirements, safety and environmental considerations;
- D- Contractor hereby accepts any and all responsibilities for having properly evaluated all costs and contingencies for successfully performing the Work and satisfying all Contract obligations and to bear all and any consequences resulting from its improper evaluation;
- E- Company intends to have the Work implemented, carried out and completed satisfactorily by Contractor;
- F- Contractor ~~acknowledges to be fully aware of legal environment existing in any country with respect to the performance of the Work which may affect performance of the Work and declares~~



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that it is aware of all applicable legal and regulatory conditions, formalities and administrative procedures that shall be satisfied, and it shall be responsible for all costs, expenses and charges including, without limitation, taxes, duties and custom duties, government charges, etc;

- G- Contractor declares that it is fully familiar with climatic conditions, circumstances and other factors that may directly or indirectly affect and are required for the performance of the Contractor or Sub-Contractor(s); deductions, withholding taxes, social security;
- H- Contractor acknowledges and declares that it is aware of all existing, if any, and/or possible restrictions/limitations involving Iran and/or doing business with Iran, inside or outside Iran (if applicable) related to any such works and services under the Contract and hereby waives and abandons any and all rights to resort to any such excuses, whether as Force Majeure or otherwise, including embargos and restrictions, for exonerating itself from its responsibilities and obligations under this Contract;
- I- Contractor hereby waives any claim arising from lack of any sufficient knowledge of or uncertainty of local and/or foreign conditions and difficulties in the execution of Work and it shall not be relieved or excused from any obligation arising thereof and shall have no claim and/or entitlement to extra payment thereby.
- J- Contractor explicitly declares that it accepts all the clauses and provisions contained in the Contract, and that all preceding "Whereas" clauses are an integral part of this Contract and shall be considered as contractual clauses.

NOW, THEREFORE, in consideration of the undertakings and covenants herein contained, the Parties hereby agree as follows:

Clause 1: Contract Documents

This "Contract" as referred to herein shall include the following documents which are incorporated herein and made part hereof, and where they may be in conflict with one another, they shall take the following order of precedence:

Contract Document	Title of Documents, Appendices and Relevant Annexes	Order of Precedence
This Document	Main Body	1
Appendix 1	Scope of Work	2
Annex No. 1 to the Appendix No. 1	Scope of Work Guidelines	2
Appendix 2	Compensation	3
Appendix 3	HSE Rules and Regulations	4
Appendix 4	Standard Forms	5



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Contract Document	Title of Documents, Appendices and Relevant Annexes	Order of Precedence
Appendix 5	Confidentiality Agreement	6
Appendix 6	Quit Claim Form	7

Clause 2: Definitions and Interpretations

Definitions

In the Contract, the following words and expressions shall have the meanings assigned to them except where the context explicitly otherwise requires:

- 2.1.1. **"Affiliate"** means, in relation to Party, at any time, any other entity, in which a Party directly or indirectly controls more than fifty percent (50%) of the registered capital or voting rights.
- 2.1.2. **"Applicable laws"** shall mean all laws, ordinances, rules, regulations, by-laws, decrees, orders and the like, whether of governmental or other authority or agency having jurisdiction over the Parties, the Work, the Site, and which are or may become applicable;
- 2.1.3. **"Approved/Approval"** means prior consent of Company in writing.
- 2.1.4. **"Approved Vender List/Approved Subcontractor list"** or **"AVL/ACL"** means list of all of the Contractor's and/or Subcontractors' vendor(s), supplier(s) and contractor(s) that is Approved by Company. Any and all material, equipment and services procured out of such list shall not be Approved and compensated by Company. Company has the right to modify (add or remove supplier/vendor/subcontractors) AVL/ACL at any time without any costs to Company;
- 2.1.5. **"Change Order"**, shall mean the document containing increase, decrease, or variations of specification of the Work consequently may cause the variations on the Performance Period and/or the Contract Price as stated therein, which is signed by Company and Contractor in accordance with terms and conditions indicated in this Contract.
- 2.1.6. **"Company"** shall mean Sepehr Pasargad, Oil and Gas Production Company or its successor(s) or assignee(s).
- 2.1.7. **"Company Group"** means Company, its contractors (except for Contractor and its Sub-Contractors), subcontractors, invitees and its Affiliates, subsidiary, shareholders, officers, directors, Company Personnel and employees (including the Company Representatives), agents, consultants and NIOC.
- 2.1.8. **"Company Personnel"** means any individual being under contractual relationship with Company.
- 2.1.9. **"Confidential Information"** means any document, data, information, or materials and etc. not being available in the public domain, that are furnished in any form or manner by Company to the Contractor or are otherwise acquired, obtained, generated, derived, created and/or developed by the Contractor in connection with the Work and/or field and reservoir and/or any arbitration proceedings under the Contract or relating to the business and management of Company including but not limited to any knowledge, invention, discoveries plans, maps, sections, reports, records, technical information, geological and geophysical or



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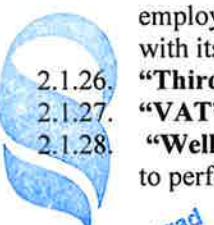


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other data, designs, drawings, profiles, logs, studies, commercial strategies, contractual documents.

- 2.1.10. **“Contractor’s Group”** means Contractor, Sub-Contractors, its invitees and its Affiliates, shareholders, officers, directors, Personnel and employees (including the Contractor Representatives), agent and consultant;
- 2.1.11. **“Day”** means a day according to the Gregorian calendar starting at 00:00 hours and ending at 24:00 hours;
- 2.1.12. **“Effective Date”** has the meaning ascribed to such term in Clause 4;
- 2.1.13. **“Field”** means Sepehr and Jufair fields;
- 2.1.14. **“Gross Negligence” an/or “Willful Misconduct”** means any act or failure to act (whether sole, joint or concurrent) by any person, which was intended to cause, or which was in reckless disregard of or wanton indifference to, harmful consequences such person knew, or should have known, such act or failure would have on the safety or property of another person.
- 2.1.15. **“HSE”** shall refer to Health, Safety, Security and Environment; (Appendix 3)
- 2.1.16. **“Law(s)”** means the laws, by-laws and regulations of the Islamic Republic of Iran, as they may be changed from time to time;
- 2.1.17. **“Company Items”** or **“Company’s Item”**, means any equipment that belongs to Company.
- 2.1.18. **“Contractor Items”** or **“Contractor’s Item”** means any or all equipment, goods, materials, spare parts, tools and other items, including the appurtenances and related items, to be owned, rented, hired, chartered, leased, contracted or furnished by Contractor, in connection to the Scope of the Works/Services as mentioned in Appendix 1.
- 2.1.19. **“Month”** and **“Year”** shall mean calendar month and calendar year in accordance with the Gregorian calendar;
- 2.1.20. **“NIOC”** means the National Iranian Oil Company, a company organized and existing under the laws of Iran, with the address of Taleghani Avenue, Tehran, Iran
- 2.1.21. **“Personnel”** or **“Contractor Personnel”** means any person involved in performance of the Work, whether being the employee of Contractor or its Sub-contractors or any other entity being under any kind of relationship including contractual relation with Contractor;
- 2.1.22. **“Operation Area”** or **“Contract Area”** shall mean an onshore area situated Sepehr-Jufair Field located in the northeastern part of the Abadan Plain, Sepehr-Jufair area where the Work under the Contract is being carried out as per Appendix 1 (Scope of Work);
- 2.1.23. **“Call out”** or **“Call off Order”** means an order issued by Company which include the Services to be performed and carried out by Contractor.
- 2.1.24. **“SSO”**, stands for Iranian Social Security Organization;
- 2.1.25. **“Sub-Contractor”** or **“Subcontractor”**, shall mean sub-contractor(s), and/or consultants employed by Contractor at its own costs and expenses in connection with the Work and Contractor’s responsibilities. Contractor shall obtain Company’s Approval before employing any Subcontractor. Contractor shall not have the right to terminate its contracts with its Subcontractors without Company’s Approval;
- 2.1.26. **“Third Party”** means any person except for Company Group and Contractor Group;
- 2.1.27. **“VAT”** stands for Value Added Tax;
- 2.1.28. **“Well Location”** means any location within Operation Area where Contractor is required to perform services as per Contract.


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2.1.29. **"Work" "Services" or "Project"** shall mean any and all activities including services which are required to be performed, accomplished and delivered by the Contractor in accordance with Contract Documents;

Further words and/or expressions may be defined in the Contract and shall be then written in capital letters.

Interpretations

- 2.2.1 No consideration is given to the fact or presumption that any Party had a greater or lesser hand in drafting this Contract.
- 2.2.2 Where terms appear in the Contract as capitalized (initially or fully) terms they shall have the meaning ascribed to them in the Contract.
- 2.2.3 Words referring to the singular shall also include the plural and vice versa where the context requires.
- 2.2.4 Words referring to persons shall include firms and corporations.
- 2.2.5 "Captions" or "Headings" of various parts or sections of Contract are solely for the convenience and shall not be taken into consideration in the interpretation or construction of Contract or affect obligations or liabilities for the respective Parties hereto, or in ascertaining the intent of the Parties hereto if any question of intent should arise, it being the intention of the Parties that Contract shall be construed as a whole.
- 2.2.6 References in this Contract to Clauses and Appendices shall be understood as being references to Clauses and Appendices of this Main Body of the Contract.
- 2.2.7 With respect to any technical and/or operational term referred to this Contract that is not defined in this Clause 2, such term shall have the meaning assigned to it in the relevant Appendix.
- 2.2.8 Words "Including", "included", "include", "such as", "comprising" and the likes shall be deemed to be completed by the expression "but not limited to".
- 2.2.9 "Require", "request", "submit", "answer", "notify", "instruct", "state", "inform", "agree" "Approve" and the likes shall be deemed to be completed by the expression "in writing".
- 2.2.10 "Days" or "Months" shall mean "consecutive calendar days" or "consecutive calendar months".
- 2.2.11 "Clause" and "Sub-Clause" shall mean Clauses and Sub-Clauses of the Main body unless otherwise specified.

Clause 3: Subject of Contract

- 3.1 The subject of this Contract is satisfactorily provision of Maintenance Services as detailed in Appendix 1 ("Scope of Work") in accordance with this Contract. Contractor shall perform the Services with due diligence and care and in a good, safe and workmanlike manner, all in accordance with this Contract and good international oil and gas industry practices. The Services shall include all activities that are set forth in this Contract and all activities that are reasonably inferable from description of the Services.
- 3.2 Contractor shall provide services to the Company on a scheduled Services through required manpower and on a Call off basis as below:



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A) Requirement of Manpower: This is the minimum manpower requirement that the Contractor is obligated to provide as detailed in Table No. 2 of Appendix No. 1 (Scope of Work) to fulfil the Services and orders for which the Contractor is obligated.

B) Call Off basis Services: If Company desires Contractor to perform any Services, it must provide Contractor with a Call Off Order. Each Call Off Order will be incorporated into and form part of this Contract and the Contractor must perform the Services in accordance with this Contract and the applicable Call Off Order. In the event of a verbal Call Off Order, Contractor must send to the Company a letter confirmation of such Call Off Order as soon as reasonably practicable time to obtain the Company's confirmation; however, any failure on Contractor's part to send such letter shall not affect the obligations of Contractor to perform the Services contemplated by such verbal Call Off Order.

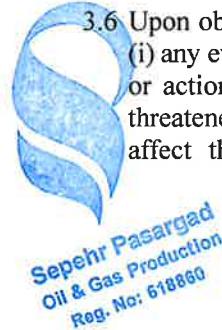
3.3 The Call off Order is the only formal document whereby Company engages Contractor to perform the Services in accordance with the Contract. Accordingly, they shall be signed by Company's Representative.

3.4 The execution of this Contract by Company and Contractor will not impose any obligation whatsoever on Company to issue any Call Off Order to Contractor. The Contract shall not be binding upon Company to exclusively use the Services of Contractor and it shall not impose any obligation whatsoever on Company to request the Contractor to perform the Services. It is understood and agreed that Company neither guarantees a minimum utilization of the Services and request of the Services nor minimum Contract Price or payment. However, it is understood and agreed that Contractor shall perform any Services at any time upon a Call Off Order issued by Company.

3.5 Contractor shall maintain, at a location acceptable to Company, the Work/Project operating logs, records, and reports that document the operation and maintenance of the Work/Project, all in form and substance sufficient to meet Company's reporting requirements under the Project Agreements. Contractor shall maintain current revisions of drawings, specifications, lists, clarifications and other materials related to maintenance of the Project provided to Contractor by Company and vendors. Contractor shall provide Company reasonably necessary assistance in connection with Company's compliance with reporting requirements under the Project Agreements, applicable Laws or any other agreement to which Company is a party relating to the Project. Such assistance shall include providing reports, records, logs and other information that Company may reasonably request as to the Project or its operation.

Unless expressly agreed otherwise in writing, this Contract and the Scope of Work will apply to every Call-Off Order, during the Contract Duration with the same force and effect as if these terms and conditions and the Scope of Work were fully set out in any such Call-Off Order. Unless the Parties expressly agree otherwise in writing, these terms and conditions (including any amendments to them) will supersede any other terms and conditions as may be attached to any Call-Off Order during the Term. Format of service tickets shall be proposed by Contractor for Approval of Company but irrespective of the terms and conditions in such orders or tickets, the terms and conditions of this Contract will govern the performance of the Services.

3.6 Upon obtaining knowledge thereof, Contractor shall promptly notify Company in writing of: (i) any event of default under any of the Project agreements; (ii) any litigation, claims, disputes or actions, threatened or filed, concerning the Project or the Services; (iii) any refusal or threatened refusal to grant, renew or extend (or any action pending or threatened that might affect the granting, renewal or extension of) any license, permit, warranty, approval,



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authorization or consent relating to the Project or the Services; and (iv) any dispute with any governmental authority relating to the Project or the Services.

3.7 Contractor shall indemnify, defend and hold harmless Company, Company Group, the members thereof, and their respective officers, directors, employees, agents, Affiliates and representatives (the "Company Indemnified Parties"), from and against any and all claims (in whatever form and to the fullest extent permitted by law) arising out of or in any way connected with, but only to the extent of, any gross negligence, fraud or willful misconduct of Contractor or anyone acting on Contractor's behalf or under its instructions, in connection with this Contract and Contractor's obligations thereunder. Any costs or expenses incurred by Contractor pursuant to its indemnity obligations under this Section, including the cost of deductibles with respect to the insurance maintained by Contractor or Company or losses in excess of such insurance coverage, shall not constitute a Reimbursable Cost under this Contract.

Clause 4: Contract Duration

Effective Date and Commencement Date

4.1 This Contract shall become effective on the date (Effective Date) on which all of the followings are met:

- a) Both Parties have signed this Contract (called Signing Date).
- b) Performance Bank Guarantee (PBG) is submitted by the Contractor and approved by the Company as mentioned details in Clause 8, 8.2.
- c) Contract is awarded by Company to Contractor.

Note: The beginning of the Work will be instructed to the Contractor via an official letter of proceed. Date of such letter will be considered as the contract Commencement Date.

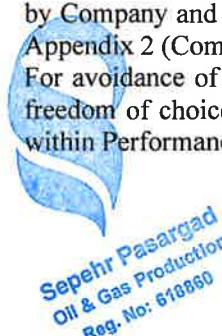
Clause 5: Performance Period

Contractor shall complete the Work in accordance with the Contract within 2 (Two) Years from the Commencement Date. This period shall be known as the "Performance Period". The completion date of the Contract, after the Company's Approval, shall be the date of issuance of Final Acceptance Certificate (FAC) by Company. The Force Majeure and Suspension Period will be added to the Performance Period.

Clause 6: Contract Compensation

Total gross ceiling all-inclusive contract price is **4,976,131.20 USD** (hereinafter called "Contract Compensation"). Contractor will be compensated based on the actual performed Services that requested by Company and satisfactorily performed by Contractor in accordance with this Contract particularly Appendix 2 (Compensation).

For avoidance of doubt, Company is not obliged to meet the ceiling mentioned above and have full freedom of choice to exercise none or whole of the Services to which the Contractor is responsible within Performance Period.



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Contract price and all unit rates are all-inclusive and including all Iranian taxes and customs, duties, Social Security Organization payments and contributions, and all other legal and financial expenses, money transaction and transfer, charges and deductions and levies. The Contract price and unit rates are all-inclusive and shall include, but not limited to Contractor's overhead, profit, risk, management costs, all direct and indirect costs and expenses, and all other costs and/or expenses required to be incurred by the Contractor for the full performance of the Services.

Note 1: The advance payment to the Contractor shall be made following the Contractor's official written request and subject to the Company's approval. The Advance Payment shall not exceed **five percent (5%)** of the total Contract Compensation.

This payment shall be made to the Contractor only after the Effective Date and upon submission of an irrevocable, unconditional, and extendable bank guarantee in an amount equal to the advance payment. The guarantee shall be issued in favor of the Company by an Iranian bank acceptable to the Company, and in the form attached hereto as Appendix 4 of the Contract.

Note 2: Contract price only excludes Value Added Tax inside Iran (VAT). Such VAT will be reimbursed to the Contractor (if applicable) upon presentation of VAT registration certificate with Iran's tax authorities. The VAT amount shall be presented in each invoice in Rial as per the relevant laws and regulations.

Note 3: The unit rates and prices indicated in Appendix 2 (Compensation) are firm and fixed and are not subject to any escalation or adjustment of whatsoever name, kind and nature during Performance Period and any variation thereof.

Note 4: Company has the right to order additional Services (hereinafter called "Change Order") to the Scope of Services up to 25 percent (25%) of Contract price at his sole discretion and Contractor shall perform such Change Order according to relevant unit rates and prices specified in the Appendix 2 (Compensation). In this case, and as a matter of necessity, the contract period might be extended for the requested extra services. The details of Change Orders(s) mechanism (if applicable) cited in the clause No. 9 of this document. (Change Order)

Note 5: Each and every invoice of Contractor shall be subject to all legal and contractual deductions and procedure stipulated in Appendix 2 (Compensation).

Note 6: The Contractor hereby irrevocably waives any and all rights, claims, or entitlements to compensation, damages, or extensions of time arising from delays in the processing or payment of any amounts due under this Contract.

Note 7: All payments made to the Contractor prior to the final financial settlement, including the resolution of any invoice discrepancies, shall be deemed on account payments and subject to adjustment upon final financial clearance.

Clause 7: Invoicing And Terms of Payment

(A) Payments to Contractor shall be made against subsequent presentation of the following documents:

- I. Approval of documents and reports (Documents and Reports) of requested Call-Off Order (as per Call-Off Order format) by the Company. Supporting documentation including Service tickets, reports, needed additional credentials Approved by Company and/or relieving vouchers, and/or progress reports as deemed necessary duly signed by Contractor and Company Representatives must be include.



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- II. Two (2) original plus one (1) copy of the Contractor's signed commercial invoice(s)
Approved by the Company's Representative (Invoice) as Approved for payment.

During the Performance Period, Contractor will submit its invoices based on actual performed Services according to the invoicing procedure that will be attached to the Appendix 2 (Compensation).

Payment to the Contractor shall be made up to sixty (60) Days after the date of Approval of such invoice(s) by the Company in the currency as stated in the Contract. If any part of invoice(s) is contested and not Approved by the Company, the Company shall up to forty-five (45) working Days after receipt of invoice notify the Contractor of the item(s) disputed, specifying the reasons therefore, and payment of the invoice(s) shall be withheld until settlement of the dispute. In this condition, the Contractor shall modify the invoice within twenty (20) working days and achieve the Company's Approval.

Note 1: In case the submitted invoice(s) needs discrepancies clearance and modification, in matter of necessity, Company shall hold a meeting with Contractor and disclose his point of view to reach a mutual agreement on the matter(s).

Note 2: If upon final settlement of Contract, Contractor is considered as the debtor, it shall pay its debt to Company within fifteen (15) Days after final settlement. Otherwise, Company shall have the right to settle the debts by deducting the required amount from Contractor's retentions, guarantees, unpaid invoices, etc. and then, if any amount remained under the Performance Bank Guarantee, the remained Performance Bank Guarantees will be released accordingly.

(B) Currency, Exchange Rates

- I. Company is entitled to pay entire Contract Compensation on any part thereof in any currency other than USD.
- II. In case of any payment in Iranian Rial (IRR), the applicable exchange rate shall be the one quoted in the Secondary Market of portal for integrated foreign currency transactions system so called "Sana" for the daily bid rate of purchasing market transference exchange rate (TT Weighted Average Market) as stated in SANA website (sanarate.ir) on a day before the date of payment.
- III. In case of any payment in other currency (other than USD and except Rial), the applicable exchange rate shall be the one published in the Financial Times on a day before of the date of payment.
- IV. The Contractor shall, in respect of the Work under the Contract, comply with the Law and any foreign exchange rules and regulations issued by the Central Bank of Iran (CBI).
- V. Company shall not bear any costs associated with handling and transfer of money for making any payments to the Contractor.

(C) Deductions from Payments to Contractor

Following amounts along with other deductions under the Contract shall be deducted from any and all payments to the Contractor:

- 5% (5 percent) of the total gross amount of each invoice for the advance payment

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TEHRAN CITY ELECTRICAL INDUSTRIES DEVELOPMENT CO

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depreciation shall be kept by the Company.

- 5% (5 percent) of and the total gross amount of each invoice, with the last Contractor's invoices (which shall not be less than 12% of the total gross ceiling price of the Contract), shall be kept by the Company until expiry or termination of the Contract or Approval of full accomplishment of the of Work, and submission by Contractor to Company of (i) an Invoice for the total amount of the said retentions, (ii) a certificate from Social Security Organization to the effect that Contractor has paid its entire SSO premiums or that Contractor is exempt from payment thereof (final clearance certificate).
- All taxes, in accordance with the applicable laws and regulations during the Period Performance (if applicable).
- Applicable Contractor liquidated damages as per Main Body relevant clause of Contract and this Appendices.
- Cost of part of performed Services and/or materials, equipment, machinery and etc. delivered by the Company, which are part(s) of Contractor's obligations. Such costs charged by the Company, shall be in accordance with actual costs presented by the Company's evidence, plus 15% (fifteen percent) overhead.
- Good performance retention (10%) as per ascribed in the clause 8.3.

Clause 8: Guarantees

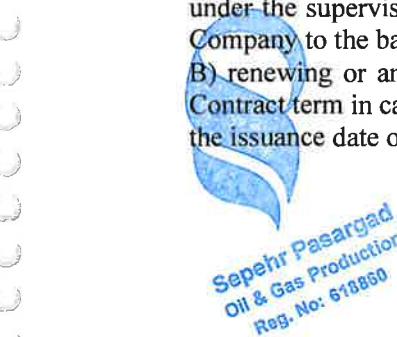
Contractor shall provide guarantees in accordance with the forms stipulated in Appendix No. 4. (Standard Forms)

8.1 Advance Payment Bank Guarantee

The amount of the advance payment guarantee shall be equal to **Five percent (5%)** of the Contract Compensation. Contractor shall provide Company with an unconditional, valid and irrevocable bank guarantee(s) acceptable to the Company and payable on first demand of Company to guarantee the due advance payment under the Contract and Company's approval. (Form can be found in Appendix No. 4) The advance payment bank guarantee shall be provided after Company's approval and award the Contract by Contractor from a prime bank acceptable to Company. This bank guarantee shall be valid up to the end of amortization of the advance payment amount, and will be released upon issuance of the Contractor's request and further Company's Approval.

If requested by Contractor, Company, at its discretion, may accept the provision of advance payment guarantee in **Rial** subject to:

- A) provision of an acceptable advance payment bank guarantee equal to 130% of the stated amount in this Clause. Purchasing SANA Telegraphic Transfer (TT) rate as published at www.sanarate.ir website under the supervision of the Central Bank of Iran (CBI) at the date of PBG's letter issued from the Company to the bank shall be applied. and;
- B) renewing or amending amount of the provided advance payment guarantee upwards during the Contract term in case of surge of currency exchange rate more than 10% in comparison with the rate at the issuance date of advance payment guarantee.



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Note: In case of Contractor's failure, the equal amount will be deducted from approved entitled payment as complementary of PBG amount.

8.2 Performance Bank Guarantee ("PBG")

In order to ensure and guarantee timely and performance of the Contractor's obligations under the Contract, Contractor shall provide Company with an unconditional and irrevocable bank guarantee(s) acceptable to Company and payable on first demand of Company (Form can be found in Appendix No. 4). The amount of the performance bank guarantee shall be equal to **Five percent (5%)** of Contract Compensation in favor of Company issued by an Iranian bank acceptable to the Company. The performance bank guarantee shall be provided before award the Contract by Contractor from a prime bank acceptable to Company. This bank guarantee shall be valid up to the end of Performance Period, and will be released upon issuance of Final Acceptance Certificate (FAC) by Company and further Company's Approval.

The performance bank guarantee ("PBG") shall remain in force during the Performance Period. Company shall have the right at any time, if Contractor is in breach of any provisions of the Contract or when is not able to perform or fulfil its obligations under this Contract, or when the Contractor has abandoned the Work or in case of termination of the Contract due to Contractor's failure, to confiscate this guarantee or portions thereof, at its sole discretion, as a minimum compensation for the loss, damages and expenses incurred by Company, without notification or referral to any jurisdiction and without prejudice to Company's other rights and remedies.

If requested by Contractor, Company, at its discretion, may accept the provision of PBG in **Rial** subject to:

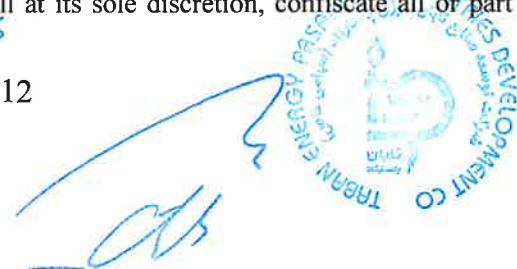
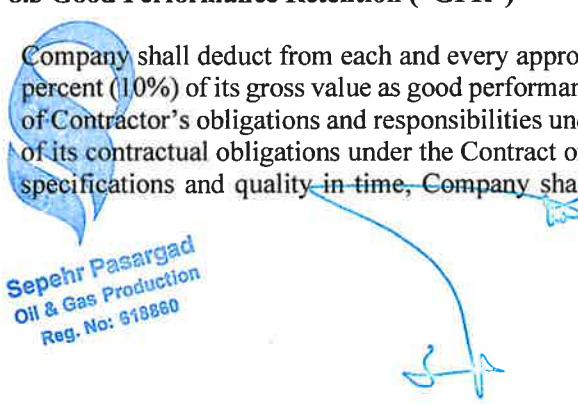
A) provision of an acceptable PBG equal to 130% of the stated amount in this Clause. Purchasing SANA Telegraphic Transfer (TT) rate as published at www.sanarate.ir website under the supervision of the Central Bank of Iran (CBI) at the date of PBG's letter issued from the Company to the bank shall be applied. and. and;

B) renewing or amending amount of the provided PBG upwards during the Contract term in case of surge of currency exchange rate more than 10% in comparison with the rate at the issuance date of PBG.

Note: In case of Contractor's failure, the equal amount will be deducted from approved entitled payment as complementary of PBG amount. The PBG shall remain valid until issuance of the Final Acceptance Certificate. After satisfactory accomplishment of the Services, Contract expiry or termination and Approval of Company, the PBG will be released.

8.3 Good Performance Retention ("GPR")

Company shall deduct from each and every approved invoice(s) of Contractor an amount equal to Ten percent (10%) of its gross value as good performance guarantee retention for due and good performance of Contractor's obligations and responsibilities under the Contract. In case Contractor fails to fulfill any of its contractual obligations under the Contract or fulfil it properly or in compliance with the required specifications and quality in time, Company shall at its sole discretion, confiscate all or part of the



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performance retention. The amount of good performance retention (“GPR”) shall be returned to Contractor within a month after expiry or termination of the Contract or after satisfactory completion of the Services (FAC) and Company’s Approval or its Representative certifying that the Contractor’s obligations under the Contract have been carried out satisfactorily.

9. Change Order

(1) Change Order to Contract

Company shall have the right to order the Contractor during the Performance Period, to make changes to the Work in form of increase up to twenty-five percent (25%) of Contract Price as follows:

- I. Increase or decrease the quantity of the Work; or
- II. Addition any service to the Work; or
- III. Change the specification or quality or kind of any part of the Work.

9.1.1. Promptly after issuance of Change Order by the Company, Contractor shall prepare at its own costs an estimate and evaluate of any and all consequences such modification would have on Personnel, Contractor Items and Contract Price in accordance with the provisions of Contract which will be subject to Approval.

9.1.2 Effects of Change Order on the Contract Price (if any) shall be evaluated by Contractor in accordance with following procedure:

(a) “Unit rates” specified in the Appendix No. 2 (Compensation) shall be used for Contractor additional/reduced work(s) Approved by the Company.

(b) If the corresponding unit rates for services as per requested Change Order is not stipulated in the Appendix No. 4 (Compensation), such unit rates shall be calculated based on one of the following options as Approved by the Company:

- i Cost plus basis with an overhead rate 15% (fifteen percent) which includes management fee, tax, SSO and profit). In this case, all costs shall be “at costs” that Approved by the Company prior rendering the Services and/or materials;
- ii Calculation of relevant lump sum price or unit rates by analogy based on lump sum price and/or unit rates mentioned in the Appendix No. 2 (Compensation).
- iii Holding a quotation process by the Contractor with participation of vendors or contractors Approved by the Company in advance and under direct supervision of the Company.
- iv Mutual agreement of the Parties.

(2) Change Order to Call Off Order

Company shall have the right to:


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- (a) Increase or decrease the quantity of the Work; and/or;
- (b) Change the specification or quality or kind of any part of the Work under the Call Off Order.

Promptly after issuance of Change Order by the Company, Contractor shall prepare at its own costs an estimate and evaluate of any and all consequences such modification would have on Personnel, Contractor Items and price of Call Off Order in accordance with the provisions of Contract which will be subject to decision and Approval of Company.

Clause 10: Representative of the Parties

10.1 Company Representative:

- 10.1.1** For the purpose of supervision of performance of the Contract by Contractor, Company shall appoint its Representative and shall inform Contractor in writing of its name and its delegated tasks, responsibilities and authorities during Two (2) Days after Commencement Date the Contract.
- 10.1.2** Company Representative's instructions, correspondences, documents, reports and so forth, in the limit of its responsibilities and authorization, shall be considered as Company's explicit, formal decision, order and shall be followed. Such issued instructions or signed documents shall remain in full force even after substitution of Company Representative.
- 10.1.3** Company's Representative shall have no authority to amend the Contract, including any change in the rights and/or responsibilities and liabilities of either Party.

10.2 Contractor's Representative

- 10.2.1** Contractor shall appoint its Representative (both Tehran Office and The Site) and shall inform Company in writing of his/her name during Two (2) Days after Commencement Date the Contract.
- 10.2.2** Contractor Representative shall be regarded to have full authorities and responsibilities on behalf of Contractor and in every respect in this Contract. The Contractor Representative will be empowered to monitor, supervise and direct the performance of the Services by Contractor and Contractor's Personnel and to act on behalf of and bind Contractor in all matters connected with the implementation of this Contract.
- 10.2.3** Contractor Representative may be replaced upon notifying Company of such replacement.

Clause 11: Termination

11.1 Termination for Convenience:

Without prejudice to the other Company's right, Company has the right to terminate the Contract or all or part of the issued Call off Order at any time at its own convenience as stipulated hereunder.

- 11.1.1** Company reserves the right to terminate the Contract or Call off Order by giving One (1) week prior notice to Contractor.
- 11.1.2** Contractor shall stop the Services instantly after receipt of such termination notice and within Two Weeks (2 Weeks) shall be delivered to Company the result of Services and its progress through a report illustrating the status and progress of each stage of Services (including unfinished parts of the Services that seems necessary to be accomplished within fifteen (15) Days and their required budget estimation).
- 11.1.3** Company may, upon Contractor's report or based on Company's sole discretion, decide to finish whole or part of the unfinished Services. As such, Company shall inform Contractor of



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its decision and Contractor shall finalize the remainder part of Services within the period to be agreed between the Parties based on the Detailed Time Schedule.

11.1.4 Contractor shall deliver the original copies of the Services documents, Company's belongings, items and the invoice(s) of the executed Services.

Note: In case of termination for convenience under Clause 11.1., Contractor shall be entitled to submit its invoice solely for the accomplished Services according to Appendix No. 2 (Compensation). It is agreed that no claim by Contractor for additional payment (of any kind, name and nature) shall be allowed in this respect and any claim is waived by Contractor. Company shall not have any other liabilities to Contractor whatsoever as a result of any such termination and Contractor agrees to waive any and all claims for damages.

11.2 Termination with Cause:

11.2.1 Without prejudice to the other Company's right and also its termination rights expressly provided elsewhere in the Contract, Company is entitled to terminate this Contract with immediate effect notice when or upon:

- a assignment of Contract to Third Parties by Contractor without Company's prior Approval.
- b Contractor's bankruptcy, insolvency or going into liquidation.
- c Fail to comply with technical standards or Appendix 1 or business ethics.
- d Changes in Key Personnel without prior Company's Approval.
- e and in general, breach of the terms and conditions of the Contract by Contractor.

11.2.2 After an announcement of the Contract termination, Contractor shall stop the Services immediately and inform Company the status of the Services and submit the original copies of the documents and reports to Company within a duration which will be given by Company (maximum fourteen (14) Days).

11.2.3 After announcement of the Contract termination, Company will confiscate Contractor's PBG and retained performance retention. Company will pay Contractor's due invoices until the date of termination (if any) as per terms and conditions of the Contract.

Note: In case of termination under Clause 11.2., Contractor shall be entitled to submit its invoice solely for the accomplished Services according to Appendix No. 2 (Compensation). it is agreed that no claim by Contractor for additional payment (of any kind, name and nature) shall be allowed in this respect. Company shall not have any other liabilities to Contractor whatsoever as a result of any such termination and Contractor agrees to waive any and all claims for damages.

11.3 If Company exercises its rights to terminate pursuant to Clauses 11.1 or 11.2, Contractor must:

- (a) immediately cease performance of all Services and immediately deliver to Company all work product (whether or not completed) unless otherwise provided by Company and return all of Company's Confidential Information that it may possess;
- (b) execute or have executed all documents and perform or have performed all such acts which may be required, including, but not limited to, the assignment of all possessory, intellectual property or other rights or any or all subcontracts and/or agreements for the



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supply of materials required for the Services, if Company so directs, to vest in Company all rights, title, set offs and other benefits held by Contractor in connection with the performance of the Services;

- (c) return all Company materials, goods and equipment (if any); and
- (d) terminate any subcontracts as directed by Company.

Clause 12: Contractor's Responsibilities and Obligations

A) Specific

Detailed and specific obligations and responsibilities of the Contractor which mentioned in the Scope of Work (Appendix No. 1) are vital to performed as stated by the Contractor.

B) General

B.1 Contractor shall perform the Work in full compliance with Contract's terms and conditions as well as the conditions and provisions of Contract.

B.2 Contractor shall carry out all its responsibilities, duties and obligations under the Contract in good faith for the best interest of Company and shall carry out the Work according to the best international oil industry practices.

B.3 Contractor shall carry out and execute the Work in such a way so as to provide complete, safe and efficient activities as specified in the Contract.

B.4 Company and NIOC have the right to have complete and comprehensive access to all invoices, documents, orders, software, contracts, tender's process and evaluation, reports, records, plans, procedures, accounts and generally all of the information and data of the Contractor and its Affiliates and Sub-Contractor in relation to the Work and Contract and the right to make copies thereof, at any time and frequently .In order to supervise, control, monitor, inspect, investigate and audit the performance of the Work, Company and NIOC have the right to have full access all Services, Contractor's or its Affiliate's or Sub-Contractor's offices/workshops/yards/camps/warehouses/ manufactures and etc.

B.5 Contractor shall afford all assistance to the other service contractors and their personnel engaged by Company in the Operation Area; to the employees of the Company and/or to any other duly constituted authorities who may be employed on the operations or any other contract which Company may enter into in connection with or ancillary to the Work and/or within Operation Area.

B.6 Contractor shall, in compliance with the Law, utilize local Iranian content during the execution of this Contract. At one hundred (100%) of Services and goods shall be considered as Iranian local content under the Applicable Law.

B.7 The Contractor shall maximize the utilization of qualified and experienced Iranian citizens to carry out Services, in accordance with the Law, including the Law limiting the employment of foreign nationals exclusively to positions where qualified and experienced Iranian citizens are not available. If the Contractor wishes to employ foreign nationals to occupy such positions, it must first obtain the prior written consent of Company. Moreover, the Contractor shall take reasonable measures to replace such foreign employees whenever qualified Iranian citizens have become available to occupy such positions.



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B.8 The Contractor is obligated to provide the required camp as details and relevant fundamental conditions which are stipulated in the Scope of Work (Appendix 1). Camp and all the equipment and facilities are in possession of the Company. During the Contract timeline, the Contractor shall endeavor and act in good faith in relation to facilitate the mentioned camp and all the tools. The Contractor hereby declares that, as per agreed terms and conditions shall attempt to facilitate the obligated camp under the ownership of the Company. The Contractor declares that the above-mentioned camp will be hand over with all the facilities and tools to the Company.

B.9 Contractor represents and warrants that:

- a. it will perform the Services at all times in a safe, diligent, efficient, cost-effective, workmanlike and competent manner and in a manner that meets or exceeds the specifications or requirements provided by Company or, if none are given, the highest recognized standards of good international oil and gas field practices and sound engineering principles and in compliance with all applicable Laws.
- b. it will furnish and maintain in good working order, and in conformance with any specifications set out in this Contract, all tools, equipment and supplies required for performance of the Services (including all Contractor Items).
- c. it will provide the Services in strict compliance with the terms of any labor contracts that Contractor may be required to execute or adhere to in compliance with Laws applicable to the Services under this Contract.
- d. all items sold or used as part of the Services will be new and free from material defects in design, materials and workmanship and conform to specifications set out in this Contract.
- e. it is experienced in the type of work and Services performed under this Contract and that Contractor's Personnel are experience in the type of work and Services and possess the relevant technical knowledge to carry out such work and Services.

B.10 Contractor represents and warrants that, prior to entering into this Contract, Contractor has:

A: obtained from Company and other sources any information and data it deems necessary to make the decision to enter into this Contract and to perform the Services including all relevant information and data relating to the location for the Services;

B: made its own evaluation of such information and data, including any applicable Laws that may apply to Contractor and Contractor's Personnel in connection with their performance of the Services, to its satisfaction; and

C: acquainted itself with the nature and scope of the Services required by this Contract and with matters which may affect the Services, including, without limitation: (i) the geographic, climatic, weather, and cultural conditions prevailing at the Project Site; (ii) third-party services, labor, facilities, airports, and ports (if applicable) available; and (iii) rules, regulations, orders, ordinances, codes, policies and Laws.

B.11 Contractor will be responsible for continuing due diligence in connection with its performance of its obligations under this Contract. Failure by Contractor to familiarize itself with any such matter will not relieve Contractor in whole or in part from its obligations under this Contract nor will such failure be the basis for an extension of time or increase in cost. Contractor must perform the Services as rapidly as existing conditions permit, in a good and



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workmanlike manner, strictly in accordance with the technical specifications and terms of this Contract, and without interruption, except in the event of Force Majeure or as may be authorized or required by Company.

B.12 Contractor shall prepare technical reports and programs on a timely, regular basis. Contractor shall deliver such reports and programs to Company Representative. Reporting procedures shall be Approved by Company. A complete and final report, covering the entire period of Services shall be produced by Contractor.

B.13 Contractor shall endeavor to transmit data or other information to Company electronically as accurately and as securely as practicable in accordance with current industry practice.

C) Personnel

C.1 To fulfil the Contract Subject by the Contractor, Personnel is divided into two parts: Required manpower (minimum manpower that is illustrated in Appendix No.1, Table No. 2) and the Call-off Personnel which are required to accomplish the Services based on each Call Off.

C.2 In addition to the terms and conditions that are stated in Appendix No. 1 (Scope of Work) concerning Contractor's Personnel, Contractor must provide sufficient support Personnel to ensure the expeditious performance of the Services (including drivers, equipment operators, maintenance/report personnel, and administrative Personnel) and, unless expressly provided otherwise in the Scope of Work or an applicable Call Off Order, the cost of such support personnel will be deemed to be covered by the unit rates set out in the Contract. Contractor represents, warrants and covenants that all of Contractor's Personnel are, and for the term will be, fully trained, experienced, qualified and able to perform the Services for which they were intended and to operate, maintain and/or prepare Contractor Items in a safe and efficient manner. Contractor must ensure that Contractor's Personnel under this Contract have successfully completed any required courses, training and seminars, met all medical requirements, and possessed the required minimum qualifications and experience set out in this Contract.

C.3 Contractor must maintain at all times the personnel specified in the applicable Call Off Order (or such other personnel as may be agreed between the Parties in writing) and any other personnel necessary to perform the Services.

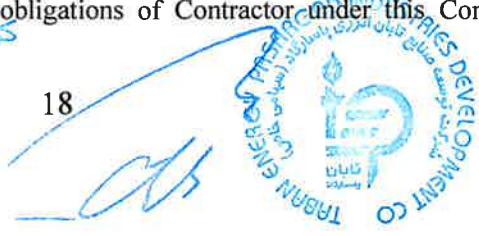
C.4 Company reserves the right to approve the appointment of all Key Contractor Personnel, identified as such in the relevant Call Off Order. Company reserves the right to selectively request detailed resumes of such Key Contractor Personnel. Changes or replacement of Contractor Personnel may take place upon the request of Company.

C.5 The personnel assigned by Contractor to perform the Services, or any part of the Services, must be mentally and physically fit, trained, competent, skilled and experienced in the conduct of the tasks for which they are intended. Contractor's Key Personnel must be able to read, write and speak the English language fluently. If requested by Company prior to the commencement of the performance of the Services, Contractor must provide to Company curriculum vitae for all of Contractor's Key Personnel to be assigned to the performance of the Services. Company will have a reasonable time after receipt of such material to make a reasonable request that any of such personnel not be assigned perform the Services, in which event Contractor must provide suitable substitute personnel.

C.6 Contractor must, and represents, warrants and covenants that it has and will continue for the Contract Duration to have the power and authority to, cause Contractor's Personnel to comply with all terms and conditions of this Contract. All obligations of Contractor under this Contract will be

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interpreted to apply to Contractor's Personnel, whether or not expressly provided. Contractor agrees to be fully responsible and liable for the acts, defaults and omissions of any and all of Contractor's Personnel relating to or arising in connection with this Contract as though they were the acts, defaults and/or omissions of Contractor.

C.7 Contractor must maintain strict discipline and good order among its personnel, and those of Contractor's subcontractors, during the delivery of the Services. In the event of negligence, professional incompetence, or non-compliance with (i) applicable Laws; or (ii) with applicable health and safety laws or regulations by any personnel directly or indirectly employed by Contractor for the performance of the Services, and if these events have or are reasonably likely to have a materially adverse effect on the performance of the Services, Contractor must promptly replace at its expense, whether or not requested by Company, any culpable personnel with a competent substitute(s) within seventy-two (72) hours or time as may be agreed by Company. Contractor must ensure that the transition to new personnel unfamiliar with Company's or Contractor's operations under this Contract will be as seamless as reasonably possible. Company, and Contractor must provide for appropriate knowledge sharing and training of the replacement personnel in this regard at no charge to Company. This provision will also apply whenever the behavior of Contractor's Personnel is likely to jeopardize or affect Company's obligations under the Main Contract at Company's decision. Any such personnel must be immediately removed from the Site at the expense of Contractor. Any personnel removed for any of these reasons must not be engaged again in relation to the Services or on other work done for Company without the prior approval of Company.

C.8 Contractor will be responsible, at its expense, for all medical and hospital expenses of Contractor's Personnel. Contractor's Personnel must undergo such pre-employment and periodic medical examinations as Company may deem necessary and as otherwise required by any applicable Laws. To the extent legally permissible, medical certificates, upon request, must be made available for inspection by Company.

C.9 Contractor must obtain, maintain and provide at its expense all visas, working permits, exit and re-entry permits and all other authorizations or documentation required by any governmental entity in connection with the entry, presence, employment or exit of Contractor Group's personnel from the country and Site. Company will assist Contractor in securing such visas and work permits.

C.10 Contractor will be responsible, at its expense, to provide and schedule for the normal rotation of all of Contractor's Personnel, including, without limitation, transportation, in compliance with the Laws. Contractor must ensure that it has available sufficient other personnel, who are suitably experienced and competent, to replace such personnel. Before commencing the provisions of the Services, Contractor must provide Company with Contractor's rotation schedule for its Approval.

C.11 Contractor will be responsible for and promptly pay all salaries, wages, costs, expenses, contributions, charges and other benefits of any nature due to Contractor's Personnel, including, without limitation, overtime, allowances, social benefits, relocation expenses, indemnities, vacation, severance, unemployment contributions, insurance, supplementary insurance, welfare funds, life insurance, pensions and annuities, rest and holiday pay, as well as compensation due to accidents, sickness, disability and death, of Contractor's Personnel and fringe benefits of whatever nature and must ensure that such payments and benefits comply with applicable Laws. In addition, regarding accommodations, transportation and food for Contractor's Personnel and also Company's personnel have to be referred to the Appendix 1 (Scope of Work). All costs and expenses arising as a result of or incidental to Contractor's compliance with this Clause, or the default of same, will be for Contractor's account. In the event that Company identifies, in its reasonable judgment, any lack of compliance that results in

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legal claim, Company shall promptly give notice to Contractor and at any time following ten (10) Days thereafter, if such matters have not been remedied to the satisfaction of Company, Company shall proceed to withhold any portion of invoiced amounts pending payment that Company deems reasonably necessary to cover all costs and expenses of the legal claim, until Contractor achieves full compliance with all labour and social security laws and regulations.

C.12 Contractor must arrange and be responsible for expenses incurred in transporting Contractor Group's personnel between their points of origin and the Site.

C.13 Contractor shall recruit and assign required skillful Personnel in offices, Site and any other places that is mentioned explicitly or implied reasonably in the Contract for performance of Services.

C.14 Company has the right to supervise, control and monitor the Services and Personnel. Company may exercise this right at any time at its sole discretion whether repetitively or not.

C.15 Contractor shall consider the situation of no payment for three months from the Company's side. In this situation, Contractor must have substantial potential to pay all the Contractor's personnel salaries, wages and all the legal and payments according to the relevant laws and rules.

C. 16 The Contractor shall submit to the Company a detailed report evidencing the payment of salaries to its Personnel, together with confirmation of payment of all applicable social security contributions (SSO) and supporting documentation, in a format acceptable to the Company.

In the event the Contractor (i) fails to provide such report in a timely manner, or (ii) delays or fails to pay the salaries of its Personnel, then, without prejudice to any other rights or remedies available to the Company under the Contract or at law, the Company shall be entitled to impose a penalty equal to the aggregate amount of unpaid salaries.

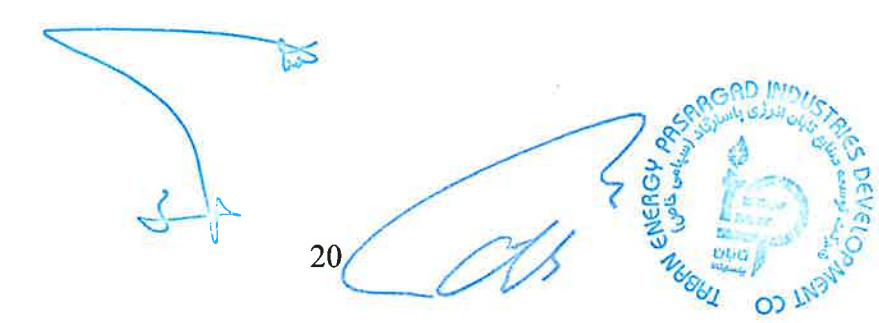
Should the Company, at its sole discretion, elect to pay any such unpaid salaries directly, the Contractor shall reimburse the Company for the full amount so paid. In addition, the Contractor shall pay to the Company an amount equal to twenty percent (20%) of the total amount paid by the Company as a management fee. The Company shall be entitled to recover any such amounts from the Contractor by way of direct deduction from any amounts payable to the Contractor under this Contract, including approved invoices, from any guarantees provided by the Contractor, or by any other means available at law, at the Company's sole discretion.

D) Contractor Items

D.1 Contractor shall be responsible, at its own cost, for providing and maintaining adequate stock and spare part levels of Contractor's Items and to replenish the same when necessary.

D.2 Contractor has no right to change Contractor Items quantity and/or qualification without Company's Approval.

D.3 Contractor shall, at its own cost and if ordered by Company, maintain and/or repair and/or replace any of the Contractor Items. Contractor shall provide the required fuel and water for Services to be performed under this Contract except otherwise stipulated in this Contract.



[Signature]

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E) Rental Items Warranty

Contractor warrants that all items rented to Company under this Contract shall meet specifications as set forth in this Contract upon delivery. Rental equipment shall be in good working condition throughout the rental period (ordinary wear and tear or misuse by Company or Company's other contractor(s) excepted), and, where ordered by Company, shall include operating manuals, supplies, and spare parts.

F) Assignable Warranties

In addition to Contractor's warranties, Contractor shall obtain from Contractor's Subcontractors and, to the extent reasonably possible, from Contractor's vendors and suppliers, assignable warranties that are no less favorable than this Contract's warranties on services, products, Consumables, and rental items, as applicable. If obtained, Contractor shall assign such warranties to Company. If no formal assignment is made, such warranties shall be deemed assigned after Contractor has completed the Work.

G) Tax, SSO, Custom Duties

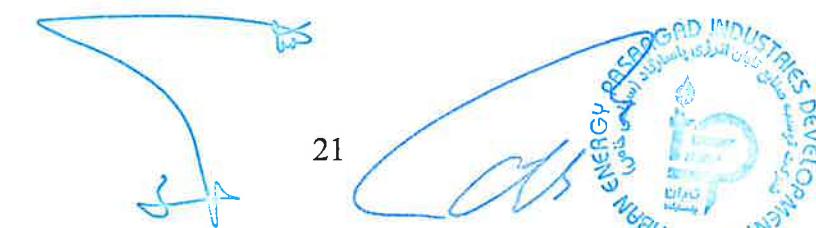
Contractor shall be liable and/or discharge under its sole liability all taxes, duties, levies, charges, custom duties and SSO charges which may be assessed or levied on Contractor or its Personnel, equipment, utilities in relation with performance of the Services before or after effectiveness of Contract. Contractor shall be obliged to pay such taxes, duties and SSO charges, such amount shall be paid to the related governmental organizations.

Note1: Value added tax (VAT) inside Iran according to Law, if applicable to the Contract, is not included in the Contract Price and Unit Rates and will be paid by Company in compliance with the Law. In this respect, Contractor shall, along with its invoice and separately in accordance with the form approved by Iranian Tax Affairs Organization (TAO), demand the payment of the VAT from the Company. Provision of a valid VAT registration and extension certificate is a condition for payment of =VAT by the Company. Contractor shall submit to Company the documents substantiating the VAT relevant to each quarter to TAO prior to the start of the next quarter.

In compliance with the Article 169 of Iranian Direct Taxes Law, Contractor is obliged to report in periods of every season, its expected income tax from submitted and paid invoices in coordination with the Company.

Note2: Contractor shall, on a monthly basis, submit to SSO Authorities its payroll records and lists of all Iranian and non-Iranian Personnel engaged in the performance of the Services. Any penalties stated under provisions of the SSO Act, for the late submission of relevant lists and delay in payment of the premiums to the SSO authorities, shall be solely on Contractor's own account. Company shall, according to the provisions of Clause 38 of the Social Security Act, retain 5% (five percent) of all and each approved invoice with Contractor's last Invoice the aggregated sum of which shall not be less than 16.67% of Contract Ceiling Price.

Note 3: Upon expiry or earlier termination of the Contract, the Contractor shall submit to the Company the certificate of Clearance from Social Security Organization. After receipt of such certificate, Company shall return said SSO retentions to the Contractor and proceed with the last invoice payment to the Contractor with due observance of other conditions of the Contract.



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H) HSE Plan

Contractor agrees to comply with all applicable HSE legal, contractual, statutory, and regulatory requirements relevant to the performance of the Work including provisions set forth in Appendices 3 of this Contract.

I) Auditing

1. Contractor shall keep and maintain books and accounts with respect to the provision of this Contract. Such books, records and substantiated supporting documents related to the Contract shall be submitted to Company and NIOC for its review and audit.
2. For the purpose of NIOC and Company's review, examination, verification and audit of the costs and expenditures carried out for the Work, Contractor shall submit all relevant information to Company as well as any substantiated documents required by Company.
3. Company and NIOC have the right to have complete and comprehensive access to all invoices, documents, records and accounts of the Contractor in relation to the Work and the right to make copies thereof, and shall have similar access, through the Contractor, to the Contractor's Affiliates' and sub-contractors' invoices, documents, records and accounts relating to the provision of this Contract, in the Contractor's offices, in order to review, examine and verify all charges and credits relating to the Work within Contract Duration and also after this duration. Such documents shall include, but shall not be limited to, books of accounts, accounting entries, technical documents, material records and inventories, vouchers, payrolls (as well as the details with respect thereto including details showing deductions, withholding and credits), statements of accounts and invoices relating to the Work. Company may also make written requests for clarification with respect to such documents, which the Contractor shall respond to in writing within twenty (20) days of Company's request.

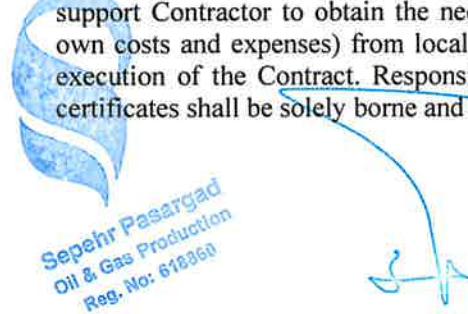
J) Training

A) Contractor shall submit a training program for company Approval within three (3) Months after the Effective Date in accordance with the Appendix No. 1 (Scope of Work clause 3.2.6) Contractor shall implement the Approved program to train Company Group.

B) The Contractor shall prepare and submit the training program, along with all relevant information including but not limited to course content, duration, training resources, and presentation methods for the Company's prior review and written approval.

Clause 13: Company's Rights and Obligations

- 13.1 The Company's obligations in this Contract are limited to the compensation for full satisfactory performance of the Work in accordance with the provisions of the Contract.
- 13.2 Company will, at its option, provide reasonable assistance, after Contractor's request, in order to support Contractor to obtain the necessary permits/approvals/local certificates (at Contractor's own costs and expenses) from local authorities and Iranian government in connection with the execution of the Contract. Responsibilities and all costs for obtaining such permits and local certificates shall be solely borne and sustained by Contractor.



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- 13.3 Company may inspect the performance of the Services, from time to time, and advise Contractor of any substandard performance. Company shall have access at all times to the site where the Work is being performed and to the equipment and personnel of Contractor for the purpose of inspecting the performance of the Work. The inspection of any aspect of the performance of the Services shall not excuse Contractor from any obligation hereunder. If Company or others fail to inspect, witness, test, discover defects or reject Services performed by Contractor that is not in accordance with this Contract, Contractor shall not be relieved from the liabilities and obligations specified in this Contract.
- 13.4 Should Contractor fail to provide a service requested by Company, Company may assign the Work to third party and deduct 15% of the respected service price and cost as management fee from the entitled and due payments.
- 13.5 All rights, powers and remedies of Company under this Contract shall be cumulative and not alternative and shall be added to all rights, powers and remedies given to Company by Applicable Law.
- 13.6 Company and NIOC have the right to have complete and comprehensive access to all invoices, documents, orders, software, contracts, tender's process and evaluation, reports, records, plans, procedures, accounts and generally all of the information and data of the Contractor and its Affiliates and Sub-Contractor in relation to the Work and Contract and the right to make copies thereof, at any time and frequently. In order to supervise, control, monitor, inspect, investigate and audit the performance of the Work, Company and NIOC have the right to have full access to all Services, Contractor's or its Affiliate's or Sub-Contractor's offices/workshops/yards/camps/warehouses/ manufacturers and etc.
- 13.7 Company reserves the right to approve the appointment of all Contractor project management team, identified as such in the relevant Call Out/Off Order. Company reserves the right to selectively request detailed resumes of such key Contractor Personnel. Changes or replacement of Contractor Personnel may take place upon the request of Company.
- 13.8 Company has the right to supervise, control and monitor the Services and Personnel. Company may exercise the afore-mentioned right at any time at its sole discretion whether repetitively or not.



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Clause 14: Confidentiality and Intellectual Property

14.1 Contractor shall hold Confidential Information strictly confidential as per Appendix No. 5 (Confidentiality Agreement).

14.2 All information, whether completed or not, shall be the property of Company for its use, reproduction, modification, distribution or disclosure in whatever way Company may determine, notwithstanding copyright or other restrictive legends placed thereon by Contractor, its employees, its Subcontractors or its suppliers. All information shall be handed over to Company promptly at Company's notice or at the termination of operations.

14.3 Any data, information, technology developed and/or any intellectual property (IP) created as a result of the Work and/or in the course of activities carried out by the Contractor including but not limited to any plans, maps, drawing, software modeling, sections, reports, records, scientific and technical data, and other similar information under this Contract shall be owned by Company, and may be used by Company in its own operations at any time. The Contractor shall not acquire any right or claim to such data, information, technology and/or IP, nor shall it have any right to use the same in any of its other activities nor shall Contractor have any right to register or apply for any IP protection in any country or jurisdiction in respect of such data, information, technology and/or IP.

Clause 15: Liability and Indemnities

15.1 Personnel of Company

Except for Gross negligence and Willful misconduct of Contractor Group and without prejudice to other provisions of this Contract, Company will be responsible for and will save, indemnify, defend and hold harmless Contractor from and against any and all liabilities in respect of: personal injury including death or disease to any person employed by Company arising from or relating to the performance of the Services.

15.2 Personnel and Property of Contractor Group

15.2.1. Contractor shall, at all times, assume liability for and shall indemnify and hold Company Group harmless from and against any and all causes of action, claims, suits, demands, proceedings, attorney's and court fees, liabilities, fines, penalties, costs and expenses of any nature whatever resulting from or in connection with any bodily injury, sickness or death of any person or member of Contractor Group and/or loss of or damage to their property or equipment in connection to the performance of this Contract regardless of cause including without limitation negligence in any form, strict liability or other legal fault of Company Group.

15.2.2. Contractor shall release, defend, indemnify and hold harmless Company and its Affiliates for pollution or contamination arising above the surface of the land or water and which escapes or emanates directly from Contractor's equipment which equipment is wholly within Contractor's control.

15.2.3. Contractor shall indemnify, defend, release and hold Company harmless from and against any claim concerning loss or damage resulting from infringements of patents or other industrial property rights arising out of or in connection with the Work (Goods) or Company's later use of the Work (Goods), except for any Works preformed in accordance with Company's design and specifications where such designs and specifications form the basis of any infringement, claim, action or proceedings.

15.2.4. This Clause set forth the exclusive liability for the Contractor regarding indemnity under this Clause to the other Party, excluding other rights based on law or equity.



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15.2.5. Neither Party shall be liable to the other Party for indirect or consequential loss (including indirect or consequential loss of use, of production, of profit, of Contract, any financial or economic loss) or damage which may be suffered by the other Party in connection with the Contract, other than under Clause 17. (Liquidated Damages)

15.3 Third Party Liability

Contractor shall, at all times, indemnify and hold Company Group harmless from and against any and all causes of actions, claims, suits, demands, proceedings, attorney's and court fees, liabilities, costs and expenses of any nature whatsoever resulting from or by third parties in connection with any bodily injury, sickness or death of any personnel and/or loss of or damage to their property, which may arise out of the performance of Contractor's Group under this Contract, except for the extend caused by Company's Gross Negligence or Willful Misconduct.

15.4 Consequential loss or Damages

Notwithstanding any other provision of the Contract to the contrary, neither Party to the Contract shall be responsible for or be liable to the other Party for any and all consequential damages suffered by such Party, including the loss of production, equipment, loss of revenue, loss of profit and/or loss of business howsoever caused.

15.5 Pollution

15.5.1 Contractor will save, indemnify, defend and hold harmless Company and Company Group from and against any and all any all liabilities arising from pollution and/or contamination emanating from the reservoir or from the property of Company under its custody arising from or related to the performance of the Services.

15.5.2 Except as provided by Clause 15.1, Contractor will save, indemnify, defend and hold harmless Company Group from and against any and all claims, losses, damages, costs (including legal costs on a solicitor/client basis), expenses and liabilities of any nature whatsoever arising from pollution and/or contamination emanating from the property and equipment of Contractor Group located above the rotary table arising from or relating to the performance of the Services.

15.6 Patent Infringement

Contractor, at its own cost and expense, shall defend Company Group against any and all suits and actions alleging that any Contractor Items, or part thereof furnished by Contractor Group under this Contract or any operation of such equipment or part thereof constitutes an infringement of any patent or other proprietary right, and Contractor shall indemnify Company Group against and hold Company Group harmless of all damages and costs (including expenses and attorney fees) which may be adjudged or decreed against Company Group as the result of any such suit or action.

If, by reason of any suit or action covered by this Clause, Contractor is, by injunction, prevented from using any such equipment or parts thereof, or any such operation, Contractor shall, at its own expenses, procure the right to use such item or operation or substitute non-infringing item or a non-infringing operation, or modify the equipment or operation to make it non-infringing.

15.7 Property of Company

Contractor shall, at all times, assume liability for and shall indemnify and hold Company Group harmless from and against any and all causes of action, claims, suits, demands, proceedings, attorney's

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and court fees, liabilities, fines, penalties, costs and expenses of any nature whatever resulting from or in connection with loss of or damage to Company's Group property in connection to the performance of this Contract regardless of cause including without limitation negligence in any form, strict liability or other legal fault of Company Group.

15.8 Formal Consent

Neither Party shall make any form of admission of liability in respect of any claim, suits, demands, proceedings, attorney's and court fees, liabilities, costs and expenses of any nature, whatsoever the reason, for which the other Party is or might be liable to indemnify that Party hereunder, or take any action to settle or compromise any such claim, suits, demands, proceedings, attorney's and court fees, liabilities, costs and expenses of any nature, without the prior written approval and consent of the other Party.

Notwithstanding the foregoing, Contractor shall immediately give a notice in writing to Company of any such claims, suits and proceedings resulting from or otherwise in consequence of this Contract or Services or any Contractor's Items or Personnel dedicated and related to this Services, and shall also supply Company with all information and documents in connection therewith as Company may reasonably require.

15.9 Maximum liability

The Maximum liability of the Contractor against Company under this Contract is equivalent to 100% of the Contract Price except for Gross Negligence and Willful Misconduct of Contractor Group that liability of Contractor may exceed such ceiling.

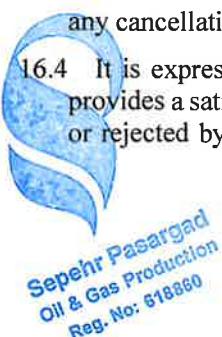
Clause 16: Insurance

16.1 Prior to Contract Effective Date or Commencement Date (whichever one occurs first), at Company's option, Contractor must obtain and maintain in full force and effect insurance coverages for both scheduled services (by minimum manpower requirement) part and Call Off Services during the Contract Duration, at its sole cost and expense, the insurance coverage and/or any relevant Call Off Order, shall be obtain according to the best international oil practice. Contractor must provide to Company a certificate of insurance or, where Contractor is unable to provide such certification, evidence to the satisfaction of Company (at Company's absolute discretion), confirming such coverage prior to performing any of the Services.

16.2 Contractor must ensure that all of the insurance required (for instance, employers liability insurance, general third party/ pollution liability insurance and other coverages that are cited in the Appendix 3 (HSE Rules and Regulations)) under this Clause provides full coverage as stipulated for itself and for all Contractor's Personnel, equipment and all the utilities existed on the area which is situated on the operation area during the Contract Duration.

16.3 All insurance policies must be primary to any other insurance that may be available to Company in all circumstances. Contractor must provide Company with thirty (30) Days' advance notice of any cancellation or material change to any insurance coverage required under this Contract.

16.4 It is expressly acknowledged, understood and agreed that regardless of whether Contractor provides a satisfactory or an unsatisfactory certificate (or such other evidence as may be accepted or rejected by Company at its absolute discretion) of insurance pursuant to Clause 11.D3, and



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regardless of whether Company allows Contractor to perform Services for Company, Company has not waived, and is not estopped from asserting against Contractor, any claim or claims alleging Contractor's breach of any of its obligations under this Clause 15 to procure and maintain insurance.

- 16.5 Neither the placement of insurance coverage by Contractor in accordance with the requirements of this Clause 18 nor the insolvency, bankruptcy, failure or refusal of any insurer to pay any claim arising under this Contract will relieve Contractor from any of its Obligations or limit Contractor's liability under this Contract.
- 16.6 The insurance required under this Clause 15 must: (i) name Company, NIOC, Company Group and its respective officers, directors, employees and assigns as additional insureds; or (ii) contain indemnity to principals' provisions, acceptable to Company (in its absolute discretion), that grants such rights to Company, NIOC and its respective officers, directors, employees and assigns, arising out of any occurrence in respect of which any claim is admitted under the policy.
- 16.7 Contractor shall obtain a waiver of subrogation from its insurers on the policies required under this Contract in favor of Company Group.
- 16.8 Contractor will fully release, indemnify and defend Company Group from and against, and hold each of them harmless from, all claims and losses resulting from, relating to or arising in connection with any deficiency in or the lack of insurance coverage of Contractor or Contractor's subcontractors as provided in this Clause 16.
- 16.9 Except as otherwise provided in this Contract, the indemnity obligations under this Contract shall not be limited in amount or in scope to coverages provided by insurance required under this Contract.

Clause 17: Liquidated Damage

It is acknowledged that the Contractor's failure to achieve substantial completion of the Work within the Contract Duration provided by the Contract Schedule will cause the Company to incur losses of types and in amounts which are impossible to compute and ascertain with certainty as a basis for recovery by the Company of actual damages (such as Contractor fails to have a set of backup tools available and a tool malfunction), and that liquidated damages represent a fair, reasonable and appropriate estimate thereof. Accordingly, in lieu of actual damages for such delay, the Contractor agrees that liquidated damages may be assessed and recovered by the Company as against Contractor and its Surety, in the event of delayed completion and without the Company being required to present any evidence of the amount or character of actual damages sustained by reason thereof; therefore Contractor shall be liable to the Company for payment of liquidated damages in the amount **Up to 10% of Contract Compensation** of the Contract that Substantial Completion is delayed beyond the Contract Schedule as adjusted for time extensions provided by the Contract Documents. Such liquidated damages are intended to represent estimated actual damages and are not intended as a penalty, and Contractor shall pay them to Company without limiting Company's right to terminate this Contract for default as provided elsewhere herein. Liquidated Damages will be calculated according to the below-mentioned formula and percentages that are cited in the Penalties list in Appendix No. 2:

1) Up to 5-day delay for the Call Off Services part;



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2) Up to 7-day delay for mobilization and demobilization will be considered.

Contractor and Company recognize the delays and failure, expense and difficulties involved in determining the actual loss suffered by Company as a result of the above situation. Moreover, Company and Contractor agree that penalties as per Appendix 2 shall apply which are expressly accepted by Contractor, Contractor will pay Company the amounts specified Appendix 2 (Compensation).

Note: Contractor Penalties are listed in the Table 24 of Appendix No. 2 (Compensation)

Clause 18: Force Majeure

- 18.1 No failure or omission by either Party to carry out or to perform their obligations (except for obligations to pay any money due and indemnification obligations) as stipulated in any terms and conditions of the Contract, shall give the other Party a right to claim against such Party or be deemed a breach of the Contract, if, and to the extent that, such failure or omission arises from Force Majeure.
- 18.2 It is agreed between the Parties that Force Majeure shall mean any occurrence or event or circumstances which is beyond the control of the Party affected and which is unforeseeable and cannot be prevented by the exercise of reasonable diligence by the affected Party. Force Majeure includes, but is not limited to, general labor disturbances, Acts of God, unavoidable accidents and acts of war (declared or undeclared), but shall not include unavailability or lack of funds, any failure to make payment due under the Contract, any strike or other form of labor dispute limited to the employee of the Contractor and its Subcontractors for any reason, failure of Subcontractors and also sanctions, embargos, restrictions and limitations whether national, regional, international, Europe, USA or UN. For any avoidance of doubts, dust, mist and hot weather are not considered as Force Majeure (except such condition Approved by Company, at his sole discretion) and Contractor shall not be waived from its obligations nor be entitled to receive any additional compensation or time addition upon occurrence of such events.

Note: The wind speeds over that one hundred ten (110) kilometer per hour within the Operation Area shall be considered as Force Majeure.

- 18.3 The Party prevented from performing its obligations, for any such cause, shall promptly notify the other, and shall do all things reasonably required to remove such cause and shall resume performance of the Work as soon as such cause is removed.
- 18.4 In the event that any part of the Work shall be affected by Force Majeure conditions, the Contractor shall proceed with other parts unless Force Majeure conditions affect the remaining part(s) of the Work. In the event of any such situation of Force Majeure, the Parties to the Contract shall meet and discuss the most efficient and equitable solution to the problem, taking into consideration the terms and conditions of the Contract.
- 18.5 In case Force Majeure condition persists for a period exceeding sixty (60) days, then either of the Parties shall have the right to terminate the Contract by serving a fifteen (15) days prior notice to the other Party to the extent such Force Majeure event is recognized by Company.

Clause 19: Suspension

- 19.1 Company, without prejudice to any other rights or remedies, shall have the right at any time to suspend execution of the whole or part of the Work (for both scheduled services and Call Off

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TANAKA ENERGY SERVICES DEVELOPMENT CO LTD

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Services) for a maximum cumulative period of Five (5) Months throughout the Contract Duration subject to a prior notice declaring the starting date of the suspension.

- 19.2 During the suspension period the Contractor shall arrange for the care and protection of the Work and Materials and Equipment in a suitable manner and in accordance with the Contract provisions. Contractor shall not remove from the Site any Materials and Equipment or Contractor Items without the Approval of Company.
- 19.3 During the suspension period, Contractor is not entitled to receive any compensation and/or payment and/or additional payment (of any kind, name and nature) for this period with the exception of the direct costs of Contractor during such period subject to Company approval.
- 19.4 If Suspension is not directly attributed to Company, this suspended period shall not be considered excusable delay.

Clause 20: Assignment and Subcontracting

20.1 Assignment

- 20.1 Contractor shall not assign (totally or partially) this Contract or its rights and/or obligations and/or responsibilities and/or liabilities thereof, without obtaining the prior Approval of Company. Company may require Contractor and/or its assignee to issue a performance guarantee in a mutually agreeable form before Approval of any assignment. Such assignment shall not relieve Contractor from any of its obligations to Company under the Contract. Contractor and the assignee shall be jointly and severally liable towards Company under this Contract.
- 20.2 Company at its sole discretion and by notice of assignment to Contractor shall have the right to assign this Contract or any part thereof or any right, benefit or interest arising thereof to any company, subsidiaries (whether wholly or partially), affiliates and its client without any joint or several liabilities for assignment by Company, the acceptance or confirmation of Contractor is not required. In the event of such assignment shall not relieve Contractor of any of its obligations, responsibilities and liabilities and Contractor shall continue to perform all its responsibilities, duties and obligations under the Contract.

20.2 Subcontracting

- 20.2.1 Except where otherwise provided by the Contract, the Contractor shall not sub-let or subcontract any part of the Work without Approval of the Company and such Approval if given shall not relieve the Contractor from any of its liabilities or obligations under the Contract and it shall be responsible for the acts, defaults and negligence of any of its Subcontractors or their agents, servants or workmen as fully as if they were the acts, defaults or negligence of the Contractor, its agents, servants or workmen and the Contractor shall agree with such Subcontractors that the Subcontractors shall be bound by and observe the provisions of the Contract in so far as they can be applied to their sub-contract.
- 20.2.2 The Contractor shall ensure that potential Subcontractors are capable, experienced and equipped for the specific part of the Work they are to perform and the Contractor shall be responsible to control, supervise and monitor their performance to ensure their compliance with Contract.
- 20.2.3 The Contractor shall indemnify the Company from any claims, liabilities, demands, costs and expenses arising from the employment or the performance of its Subcontractors. In case by the end of the Contract, the Contractor or its Subcontractors fails to pay wages, salaries or statutory compensation of their labors and/or employees or Contractor fails to compensate the


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Subcontractors' services, the Company shall have the right to withhold, from the payments to the Contractor, an equivalent amount until all such payments are fully settled by the Contractor (Appendix 6). Failure of the Contractor to observe such requirement shall entitle the Company to utilize said withholdings for satisfaction of Contractor's and its Subcontractors' labors/employees' payments.

- 20.2.4 Upon written notice from the Company, the Contractor shall immediately remove, from the Operation Area, any Subcontractor which fails to perform his works in accordance with the Contract, at Company sole discretion, and shall replace the same with a competent and Approved substitute at its own cost and risk.
- 20.2.5 Selection/nomination of Subcontractors may be determined through tendering process or negotiation with prior Approval of Company. Contractor shall obtain Approval of Company regarding all evaluation of Subcontractors for selection/nomination.
- 20.2.6 Contractor shall not have the right to subcontract any part of the Work to any Subcontractor which is not listed in ACL/ AVL as well as NIOC's ACL/AVL List, unless by receiving prior written Approval of the Company with full responsibility and liability of the Contractor. Nonetheless, Company reserves his right to refuse to Approve, without justifying such refusal, any Subcontractors or vendors listed or not listed in this Contract, when intended to be involved in performance of the Work. Approval of any Subcontractor shall not create any contractual relationship whatsoever between Company and such Subcontractor.
- 20.2.7 Contractor shall ensure that any and all warranties and guarantees given by any Subcontractors shall be the best possible and as a minimum comply with the provisions of the Contract. For all services, Contractor shall submit the guarantees provisions of such Subcontractor to Company for his Approval. Contractor's failure to obtain such warranties and guarantees or insufficiency of such guarantees shall not relieve Contractor from any of its obligations, responsibilities, and liabilities under the Contract.
- 20.2.8 Without prejudice to the other obligations of Contractor with respect to Subcontractors under the Contract, Contractor shall make available to Company an unpriced copy of such Subcontracts immediately after their signature, and in addition, the Subcontracts shall state that the Subcontracts may at Company's sole discretion be freely assigned to Company or Third Parties.
- 20.2.9 Contractor shall provide Company with unpriced copies of all Subcontractor technical and contractual proposals for each tender and service and/or quotations. Contractor shall also submit to Company for comments, revisions and Approval his technical evaluation on each unpriced copies of tender documents and/or quotations and all related proposals for Company's review, comments and Approval. Company has the right to attend in such tender process and/or negotiation meetings and tenderers workshops and manufacturer.

Clause 21: Governing Law and Dispute Resolution

21.1 Governing Law

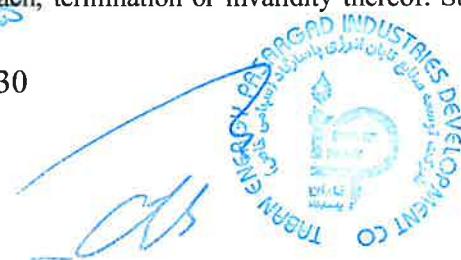
This Contract shall be governed by the substantive law of Islamic Republic of Iran.

21.2 Dispute Resolution

- 21.2.1 The Parties shall endeavor to settle by negotiation any dispute, controversy or claim arising out of or relating to this Contract, or the breach, termination or invalidity thereof. Such dispute



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controversy or claim shall be duly notified by the claiming Party to the other Party, in the forms required under the Contract and with due reference to the present Clause, and the Parties shall endeavor to settle such dispute by negotiation within three (3) Months from receipt of said notice.

- 21.2.2 If any dispute, controversy or claim arising out of or relating to this Contract, or the breach, termination or invalidity thereof, is not amicably resolved by the Parties in accordance with Clause 21.2.1, shall be settled by arbitration in accordance with the UNCITRAL Arbitration Rules (as revised in 2010).
- 22 Within Seven (7) calendar days of either party making a demand for the arbitration within below-mentioned terms, Company and Contractor shall each select one (1) arbitrator.
- 23 The appointing authority shall be Secretary-General of Arbitration Center of Iran Chamber (ACIC)
- 24 The number of arbitrators shall be three;
- 25 The place of arbitration shall be Tehran;
- 26 The language to be used in the arbitral proceedings shall be English or Persian at Company's discretion.

Note: Contractor shall until the settlement of dispute performs its obligation, duties and responsibilities under the Contract.

Note: The arbitration award as an independent entity will be binding for the Contract Parties.

Clause 22: Notice & Communication

Any and all relations and communications between the Parties shall be made through their Representatives.

Clause 23: General Provisions

23.1 Non-Waiver

Any failure by Company or Company Representative to enforce or require the performance of any terms and conditions of the Contract shall not constitute a waiver of the right to enforce or require the performance of such terms and/or conditions and shall not affect or impair such terms or conditions in any way or the right of Company at any time to avail itself of such remedies as it may have for any subsequent breach or breaches of any such terms or conditions or of any other terms or conditions of the Contract.

23.2 Severability

If and for as long as any provision of this Contract shall be deemed to be judged invalid, for any reason whatsoever, such invalidity shall not affect the validity or operation of any other provision of the Contract, except only so far as shall be necessary to give effect to the construction of such invalidity, and in such a case any such invalid provision shall be deemed severed from the Contract without affecting in any way the validity of the balance of the Contract.


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 <p>Sepehr Pasargad Oil & Gas Production</p>	<p>Sepehr Pasargad Oil and Gas Production Company</p>	 <p>TABAN PASARGAD</p>
<p>Contract No: SP-CA-SE-PD-0051</p>	<p>Maintenance Services Contract</p>	<p>Page 32 of 33</p>

23.3 Entire Agreement

The Contract embodies the entire agreement between Company and Contractor. All prior negotiations, representations, discussions, proposals, contracts or agreement in this respect are hereby cancelled or merged herein, including without limitation and any and all general explanations given to Contractor. The obligations of the Parties shall not be limited to those set out in the Contract when the Applicable law enforces other obligations.

23.4 Non-Corruption

Contractor hereby expressly affirms that no brokers or agents and no fees, commissions or bribery have been paid, offered or shall be paid to any person in relation to the Contract. In case during the execution of the Contract anything contrary to the statement made herein clarified, Company shall have the right to terminate the Contract. Company shall be indemnified and compensated by Contractor for any loss and damages in this respect including such damage as defined in Clauses 11 and also Company has the right to refer Contractor to the appropriate authorities unless such matters have been brought to the attention of Company in writing prior to Effective Date of the Contract and the innocent and non-corrupt intention of Contractor is proved to Company.

24.5 Political Activity

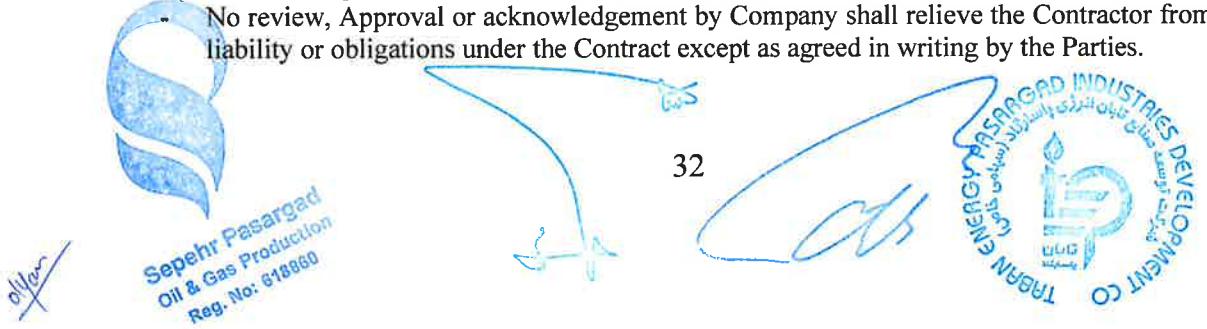
Contractor, Contractor Personnel and representatives shall not participate in or support any political activity involving the Islamic Republic of Iran. Contractor shall insert a similar clause in any contract which it enters into in any way with its prospective subcontractors for the purpose of carrying out the Work in connection with the Contract.

23.6 Modification to the Contract

Neither this Contract nor any modification or amendment thereto shall be binding on either of Parties hereto unless signed by an authorized representative(s) of such Party. Should the Parties wish to amend, modify or supplement the Contract, it shall be done in writing by an instrument signed by authorized representatives of the Parties. No amendment or addition to the Contract or any agreement in connection therewith shall be valid unless in writing signed by authorized representatives of the Parties. Further, all instructions, notifications, agreements, authorizations, approvals and acknowledgements in relation to this Contract shall be in writing and shall have no force or effect otherwise.

23.7 Miscellaneous

- In the performance of this Contract, the Contractor and its subsidiaries and Affiliates shall ensure that they each strictly comply with general business ethics. The Contractor shall ensure that such requirements are also accepted and complied with by its Sub-contractors.
- No review, Approval or acknowledgement by Company shall relieve the Contractor from any liability or obligations under the Contract except as agreed in writing by the Parties.



 <p>Sepehr Pasargad Oil & Gas Production</p>	<p>Sepehr Pasargad Oil and Gas Production Company</p>	
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- Company or the Contractor may at any time and from time to time change its address herein by giving the other Party ten (10) Days' notice in writing to such effect.
- The Contractor is an independent contractor. It shall have no power or authority to execute contracts on behalf of the Company or to act as Company's agent or otherwise bind the Company or hold itself as having such power.
- This Contract is signed in Three (3) copies any and all of which to be considered as original and identical.

In witness whereof, the parties hereto have caused this Contract duly signed. Contractor's stamp on the Contract Documents shall be presumed to have been signed by the authorized signatories on behalf of the Contractor.

Company: Sepehr Pasargad Oil and Gas Production Company

Name: Saeed Dehghani

Position: CEO and Member of Board of
Directors

Signature:

Name: Ahmad Mohammadi

Position: Chairman of Board of
Directors

Signature:



Contractor: Taban Energy Pasargad Industries Development Company

Name: Ebrahim Salemi

Position: CEO and Member of Board of
Directors

Signature:

Name: Mohammad Malaki

Position: Chairman of Board of
Directors

Signature:



 Sepehr Pasargad Oil & Gas Production	Sepehr Pasargad Oil and Gas Production Company	 TAN PASARGAD
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APPENDIX “1”

SCOPE OF WORK



Sepehr Pasargad
Oil & Gas Production
Reg. No: 618680

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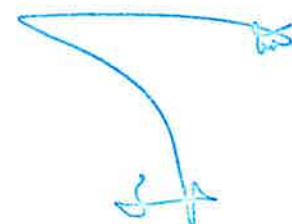
1. General

1.1. Introduction

The Sepehr-Jufair Field is located in the northeastern part of the Abadan Plain, some 50 to 60 km West-Southwest of Ahwaz and 13 km South of Hoveyzeh. The field is located close to Iran-Iraq border (13-30 Km) however it is not considered as a shared oilfield.

1.2. Glossary

CMMS	Computerized Maintenance Management System
ESD	Emergency Shut Down
HVAC	Heat, Ventilation and Air Conditioning.
WHCP	Well Head Control Panel
PPE	Personal Protective Equipment
WKPU	West Karun Production Unit
PM	Preventive Maintenance
CM	Corrective Maintenance
LBV	Line Break Valve
RA	Receiving Area



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1.3. Operating Area and Access

Sepehr-Jufair oil Field is separated in two existing and new developed facilities. The surface facilities of both sectors are generally described below.

The produced oil from heavy oil wells is being transmitted to a two-phase separator in the Jufair booster cluster and then boosted to West Karun Production Unit (WKPU) after phase separation. 5 producing wells with heavy oil, named JR-02, JR-03, JR-04, JR-05 and JR-09 are currently in service with the production around 6000 STBD.

In addition of above-mentioned wells, there are 13 light oil producers hooked up to 3 gathering manifolds. The produced oil of three South 1, south 2 and north manifold is transported to Receiving Area through a 16-inch and two 12-inch pipelines respectively. The delivery point of Sepehr-Jufair oil Field is located in West Karun Production Unit utilizing an old 10 inch from Jufair booster cluster and a new 18-inch export pipelines from Receiving Area.

The major equipment and facilities located in operating areas including well PADs, oil gathering manifolds and booster cluster are well head control panels, electrical power diesel generators, control and distribution system, control valves, auto valves, control and instrumentation and telecom systems, chemical injection packages, oil flow lines, burn pits, multi-phase flow meter, two phase separator, closed drain, pump, tank, portable pig receiver, and pig launcher, control room and etc.

Contractor shall perform the work including maintenance services for the facilities and equipment located in the operating area. The Contract services cover the services required for the whole surface facilities located between the base flange in the wellheads to the delivery point. The delivery point is West Karun Production Unit (WKPU). However, WKPU is not included in this contract.

The pipeline includes the following items:

- 6-inch Pipelines from the Heavy oil wells to the Jufair booster cluster.
- 6-inch Pipelines from the Fahliyan/Gadvan wells to the three gathering Manifold
- Burn pits lines
- Pipelines from three North, South 1 and South 2 Gathering Manifolds to the Receiving area
- Piping inside Jufair booster cluster, gathering manifolds and receiving area
- Pipelines from Receiving Area to the West Karun Production Unit (WKPU)
- Pipelines from Jufair booster cluster to the West Karun Production Unit (WKPU)
- Water transportation pipelines to the Jufair booster cluster and Receiving area.

Operating Area was surveyed and marked by Company. Contractor shall be acknowledged and accepted that the Operating Area is close to the Iraqi border in a former battlefield area and is potentially covered with mines and unexploded ordnances (UXO). Contractor shall adhere to the hazardous area classification and shall be responsible for controlling the access of its personnel, people and equipment into hazardous



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areas involving Contractor work within the Operating Area and controlling access on and to the Operating Area. In no case shall Contractor personnel leave the marked area.

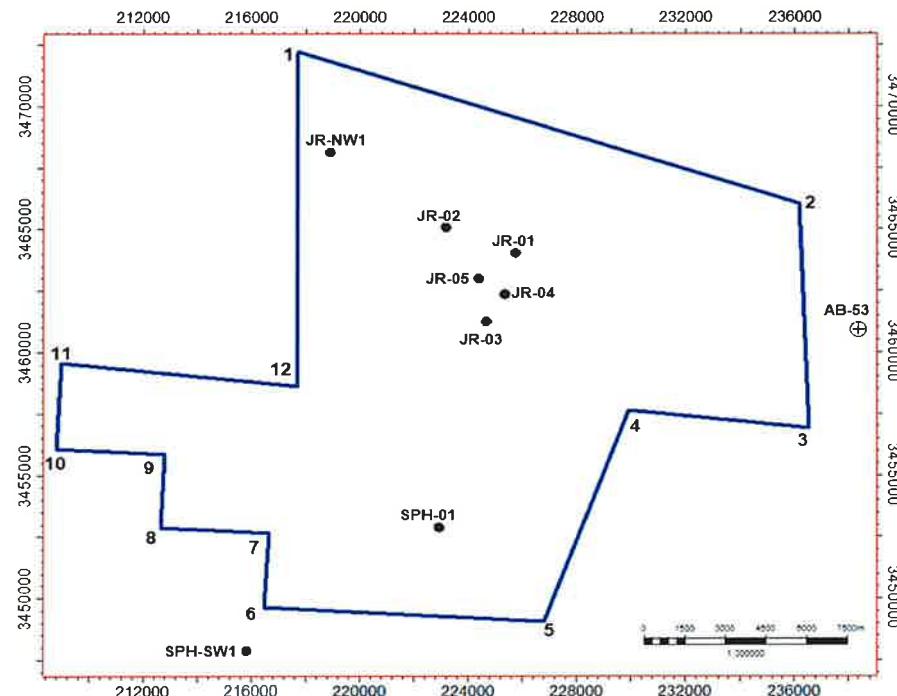


Figure 1: Coordinates for Operating area of Sepehr-Jufair Field.

Table 1: Operating Area Coordinates (UTM, WGS-84)

Coordinates	Easting (X)	Northing (Y)
1	217700	3472200
2	236214	3466040
3	236556	3456923
4	229899	3457631
5	226775	3449062
6	216475	3449637
7	216641	3452640
8	212650	3452873
9	212803	3455870
10	208808	3456089
11	208986	3459570
12	217700	3458621

2. Contractor's Responsibilities and Obligations

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Contractor shall perform maintenance jobs and services in locations designated by Company.

Contractors shall utilize technical competence, financial capacity, competent and qualified Contractor personnel and contractor items necessary to carry out duties and services specified by Company.

Contractor shall conduct all services in a diligent, skillful and workmanlike manner, in accordance with accepted good oil field practices and sound engineering principles, and in accordance with recognized industry standards, including but not limited to NACE, ISO, ASME, API, IPS and such like.

Contractor shall implement regular quality assurance and control program to ensure that all maintenance work meets the specified standards and requirements. This includes regular audits, checks, and reviews of work processes and outcomes.

TPI will be allocated by Company. Contractor is obliged to make all coordination's with the approved TPI introduced by Company and shall provide all information and data requested by TPI for inspection.

Inspection of purchased material and major activities such as overhaul will be inspected by TPI inspector (determined by Company) as per approved ITP of Company. The required ITP will be provided by Company based on requirement of that specific task and type of work and will be announced to Contractor.

The Contractor shall maintain accurate and up-to-date records of all maintenance activities, including inspection reports, maintenance logs, and equipment maintenance schedules. Regular maintenance reports shall be submitted via CMMS or other means specified by the company, detailing work completed, issues encountered, and any recommendations for improvement.

Contractor shall use all reasonable efforts to avoid any disturbance in existing labor situation which would adversely affect business of company, affiliates of Company, Co-ventures of Company and other Contractors in Operating area.

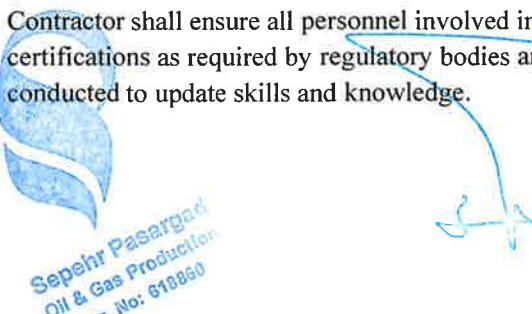
Contractor shall enforce strict discipline and good order among Contractor Personnel at all the time.

No smoking shall be allowed and no open flame shall be permitted on or near operation location at any time. Contractor shall specifically comply with all applicable law and regulations with respect with hazardous area.

Contractor shall take all necessary measures to observe company safety standards, common oil industry standards and applicable safety regulations of Government.

Contractor shall develop and maintain an emergency response plan specific to the maintenance activities carried out within the Operating Area. This plan should outline procedures for handling emergencies, ensuring the safety of personnel, and minimizing damage to property and the environment.

Contractor shall ensure all personnel involved in maintenance activities possess the necessary training and certifications as required by regulatory bodies and industry standards. Regular training sessions should be conducted to update skills and knowledge.



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Company shall have the right to conduct periodic inspections of Contractor's personnel, personnel accommodation or use any other reasonable efforts to avoid the use alcoholic beverages, illegal drugs and weapons. Contractor personnel not complying with mentioned forbidden items shall promptly be replaced by contractor at its own cost.

Contractor shall provide four Hyundai Santafe twenty-four hours for Company personnel at its own cost.

Contractor shall be responsible, at its own expense, for the collection, segregation and removal wastes generated by Contractor as a result of maintenance services within Operating Area. Such wastes shall be disposed according to local requirements and regulations.

Contractor shall ensure, throughout the duration of the Contract, on time availability and operational readiness of equipment and personnel to guarantee on-time maintenance services. Any changes in programs shall not negate Contractor's obligations concerning the availability of the equipment and personnel.

Contractor shall be responsible to consider the local employment policy based on the instruction of Company.

The Contractor shall not disclose the data / Information relevant to the Contract to the media and shall not cause the dissemination of such information (even through the local newsletters) and shall not authorizes the publication of such information without the Company's prior written authorization.

Contractor shall attend operation and regular safety meeting with Company personnel.

3. Maintenance Services

3.1. Maintenance Jobs

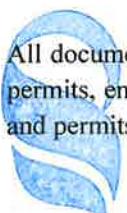
The scope is the provision of dedicated personnel, equipment, tools and related operational supports by Contractor to execute the maintenance operations for all maintainable items.

3.1.1. Required Manpower

Contractor shall be responsible for the administration of, and all costs, expenses, and liabilities connected with such Personnel furnished by Contractor.

In particular, with respect to such Contractor Personnel, Contractor shall without limitation be responsible for: Wages, salaries, overtime compensation, vacation pay, pensions, sick pay, bonuses, and living allowances (as appropriate and as applicable), including payment of applicable personal income taxes or any other taxes, social security payments, expenses, insurance premiums and benefits required by Government or otherwise.

All documents required, including, but not limited to, passports, visas, labour or work permits, residence permits, entry permit of Sepehr-Jufair oil field, driving licenses, health certificates, and all other licenses and permits required for Contractor Personnel to work on and with and to operate Contractor Items.



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Contractor shall execute maintenance jobs including PM and CM with a dedicated team organized by Contractor and approved by Company. Minimum requirement of the team is stated as follows:

Table 2: Minimum Manpower Requirements

Row	Positions	Quantity	Night Standby
1.	Maintenance Coordinator	1	1
2.	Maintenance Planner	2	-
3.	Logistic Expert	2	1
4.	Maintenance Supervisor (Engineer)	3	1
5.	HSE Officer	2	1
6.	Electrical Maintenance Technician	4	2
7.	HVAC Maintenance Technician	2	1
8.	Mechanical Maintenance Technician	4	2
9.	Instrumentation Maintenance Technician	4	2
10.	Corrosion Technician	2	-
11.	Skilled Worker	6	2
12.	Semi-Skilled Worker (Helper)	4	-
13.	Labor (Housekeeper)	2	-

Notes:

- The abovementioned positions and quantities are minimum requirements. Contractor is obligated to estimate and provide manpower according to actual work requirement at its own cost.
- Organizing personnel shift or rotation to meet the requirements of above table is the responsibility of Contractor.
- An organization chart for the above table shall be submitted to Company for confirmation.

Iranian Content liquidated damages

If Contractor fails to meet its commitments regarding the percentages of purchasing Iranian goods and services, liquidated damages shall be set as per following "liquidated damage" formula:

 Deviation from the committed Iranian Content	$c \times \text{subcontract price}$
<i>Sepehr Pasargad Oil & Gas Production Reg. No: 618860</i>	<i>C</i>

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Up to 20%	0.5%
20% up to 40%	1%
40% up to 60%	2.5%
60% up to 80%	5%
80% and more	10%

The following principles shall apply for the measurement of local content:

- Works and Services performed locally either directly by the Contractor or by any third party shall count towards local content. For other works and services performed by an Iranian, or joint venture, only the portion of value of such works and services which are directly performed by Iranian company or Iranian partner in such joint venture shall count towards local content;
- All goods produced in Iran, by using semi-finished or finished materials and/or components by any company, whether Iranian or foreign, shall count towards local content;
- The Contractor shall report quarterly to the Company in sufficient detail and with appropriate particulars on the amount of utilization of Iranian content, in accordance with Contract.

Notwithstanding the above explanations, the laws and regulations relevant to Iranian content in the implementation of the projects will be observed by Contractor.

3.1.1.1. Contractor Manpower Qualification Requirements

Contractor personnel shall meet the below qualification

Table 3: Manpower Qualification Requirements

Item	Position	Requirements
1.	Maintenance Coordinator	At least 12 years' experience in Petroleum or relevant Industry. At least B.S. in relevant fields
2.	Maintenance Planner	At least 10 years' experience in Petroleum or relevant Industry. At least B.S. in relevant field
3.	Maintenance Supervisor	At least 10 years' experience in Petroleum or relevant Industry.
4.	HSE Officer	At least 5 years' experience in Petroleum or relevant Industry.
5.	Civil Expert	At least 10 years' experience in Petroleum or relevant Industry.
6.	Logistic Expert	At least 5 years' experience in relevant Industry. At least B.S. in relevant field
7.	Maintenance Technician	At least 5 years' experience in Petroleum or relevant Industry. At least B.S. in relevant field.
8.	Skilled Worker	At least Diploma with 5 years' experience in Industry. With the maximum age of 35 years in principle

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Item	Position	Requirements
9.	Semi-Skilled Worker (Helper)	At least Diploma with 2 years' experience in Industry. With the maximum age of 35 years in principle
10.	Labor (Housekeeper)	At least Diploma, with the maximum age of 35 years in principle.
11.	Corrosion Technician	At least 5 years' experience in Petroleum or relevant Industry. At least B.S. in relevant field
12.	Piping Technician	At least 5 years' experience in Petroleum or relevant Industry. At least B.S. in relevant field

Note: The Company reserves the right to change manpower shifts and working hours based on operational requirements.

3.1.1.2. Crew Replacements

For the sake of continuity and reliability of the performance of the work, Contractor shall supply, without any delay, any Contractor personnel required to replace the Contractor personnel removed from the place of operations due to, inter alia, medical reasons.

3.1.2. Scheduled Preventatives Maintenance Activities

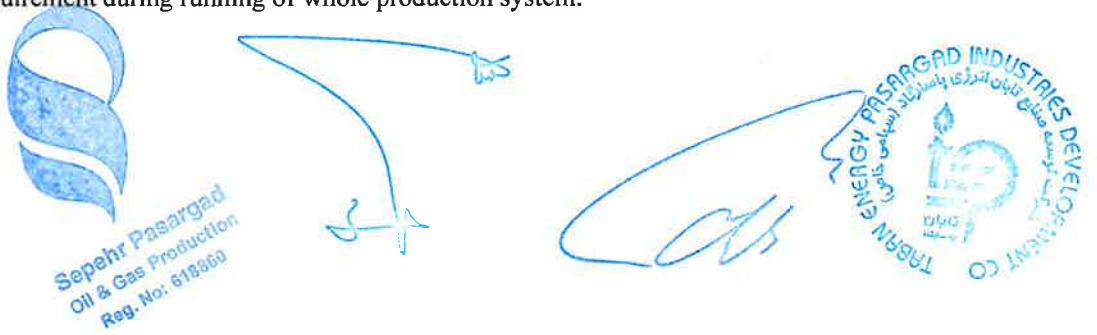
Contractor shall execute the planned maintenance activities which are stated in Appendix-2 Maintenance Compensation and based on scope of work for each job in Annex-1 - Facility Maintenance Job List and Guide Line (Attached to Appendix-1) with a dedicated maintenance team organized by Contractor and approved by Company.

Contractor shall be responsible, at its own expense, for the collection, segregation and removal wastes generated by Contractor as a result of the maintenance services within Operating Area. Such wastes shall be disposed according to local requirements and regulations.

Each job stated in Appendix-2 Maintenance Compensation based on related job description in Annex-1 - Facility Maintenance Job List and Guide Line (Attached to Appendix-1) will be compensated by Company via a lump sum price which includes all related cost of extra manpower, equipment, tools, required consumables to perform the job. The spare parts of Company facilities of each job will be provided by Company.

Company will provide the Contractor with work schedule through CMMS in advance to organize and execute the Work. If Contractor believes that some modification/correction is required, Contractor shall submit its comments for Company review and approval.

Company may, at any time, modify the periodicity, sort and type of jobs and related task according to actual requirement during running of whole production system.



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3.1.3. Scheduled Housekeeping Services of Operating Areas

Contractor shall provide a competent site cleaning team to execute the planned housekeeping activities for operating area of Sepehr-Jufair including wells, manifolds, Jufair Cluster, LBVs and receiving Area.

3.1.3.1. Description of Housekeeping Service

- Waste collecting and sweeping: Clean up and dispose all the waste on the ground inside the fence area, clean the WC with jet wash machine and evacuate septic. To collect and dispose all the waste objects inside the trash cans on the well pads, the cluster, Manifolds, Receiving area and any other facility area. Such wastes shall be disposed by Contractor according to "HSE RULES AND REGULATIONS" stated in Appendix 3.
- Housekeeping and Cleaning: Clean up and washing away any contamination with a jet wash machine and chemical, if necessary, inside the fence area of all designated operating areas, such as wells, manifolds, Jufair Cluster, LBVs, and the receiving area. Evacuation / discharging of water inside the cellars on well pad by utilization of water pump or water tanker truck. Cutting the straws and reeds that have overgrown around the well pad surrounding areas.

Note: Contractor shall provide all the required materials and equipment for housekeeping operations.

3.1.3.2. Housekeeping Schedule

Table 4: Housekeeping Schedule

Location	Waste Collecting and Sweeping	Housekeeping and Cleaning
Well Path	Every 7 days	Every one month
Manifold and /Cluster	Every 5 days	Every one month
Receiving Area	Every 3 days	Every one month
LBV	If required	If required

3.1.3.3. Housekeeping Schedule Variation

Company may, at any time, require Contractor to modify (increase, decrease or cancel) the interval periodicity of task in above housekeeping schedule according to actual requirement during running of this service.

The services above do not include wastes generated due to Contractor activities regarding scheduled and unscheduled services which should be removed by Contractor after completion of the Services. All works mentioned above shall be under Company supervision.

Each location (well pads, manifolds, cluster and receiving area) in Operating area of Sepehr-Jufair will be compensated by Company via a lump sum price which includes all related cost of extra manpower, equipment, tools, transportation, waste disposal and etc.

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Any additional housekeeping services will be charged by task as lump sum cost for each task as specified in Appendix-2 Maintenance Compensation.

3.1.4. Corrective Maintenance

Contractor shall execute the required corrective maintenance, modification, replacement, adjustment, commissioning and start-up activities for overall production system including all wells, pipelines, diesel generators, pumps, valves, instruments, control panel systems, electrical systems, fire detection and fire-fighting systems, HVAC, air compressors, buildings and all maintainable items located in the Operating Area. Contractor shall be responsible to repair, fix or calibrate equipment and facilities for any minor and major defect, damage, data discrepancy, vibration, shut down, leakage and etc. according to the work order from Company for all maintainable items.

The major scopes of work in this regard are as follow not limited to:

- Unscheduled calibration, testing, or repair of maintainable items.
- Repair, function testing, cleaning and certification of SSV, ESDV, HIPPS valve, PSV, pressure vessel, tank, separator and etc.
- Calibration, testing and repair of Instrument/Electrical control & protection, fire & gas and metering systems.
- Perform electrical repair on transformers, LV switchgears, electromotors and etc.
- To calibrate, maintain and repair fire extinguishing system.
- To carry out the required repair on flow lines and trunk lines.
- All electrical test such as megger test, Hi-Pot, run and solo run test, Earth test.
- To carry out all activities such as inspected repair, replace, of bearing, shaft, mechanical seal
- To carry out testing and repair of all telecom devices and equipment.
- All repair of fiber optic line.
- All repair of diesel generator (mechanical, Electrical, and control devices)
- All repair of chemical injection package (CIP) of (mechanical, Electrical, and Instrument)
- All repair of electrical panel in sub-station, control room, field axillary room, lighting tower, photo cells, lightening ring and devices.
- All repair of WHCP (Electrical, Mechanical, Instrument, HMI, PLC, DCS, SCADA)
- To inspect and change the corrosion coupons and stone probes.
- To repair the damaged spare parts, which can be repaired and reused.



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- To maintain and repair the industrial and constructional piping and sewage systems.
- Perform, balancing, cutting, welding, electrical cable repairing, cable termination, cable joint shrink (HOT, COLD), cable layout.
- Change and installation of choke beans and flange.
- Installation of new valves, pressure and temperature gauge.
- Perform hot and cold insulation under Company supervision.
- Charge and test the body and inspect all WHCP air cylinder and oil accumulators.
- Repair or replacement of plumbing systems, including sink faucets, siphons, valves, toilet bowls, water tanks, sewage systems, and all related plumbing system works.
- Repair or replacement of building wall partitions, desks, chairs, room doors and windows, ventilation fans, Switches and power outlets, curtains, and beds.

The Contractor shall ensure compliance with technical specifications and safety of equipment for all activities mentioned above.

The estimated corrective maintenance Works are as follows:

Table 5: Corrective Maintenance Works

Item	Discipline	Estimated Works in 2 years
1.	Mechanical	550
2.	Electrical	300
3.	Instrument	600
4.	HVAC	50
5.	General items	1000

3.2. Special Maintenance Services

3.2.1. Technical Inspection and Corrosion Protection

- To carry out technical required inspections such as non-destructive tests (radiography and eddy current) and ultrasonic methods (Guided Wave and Phased Array) as per Company request.
- To carry out painting and sandblasting of facilities according to related international standards.
- To carry out Holiday test as per Company request
- To carry out hydro test and leak test as per Company request
- To measure the thickness of the 1-pipelines and 2-piping facilities and 3-equipment and carry out the ultrasonic test for them



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- To Inspect of coating of pipeline and tanks based on the results of the cathodic protection
- To perform Fiscal Metering skid Calibration
- To perform Positive Material Identification (PMI)
- All major activity should be inspected by TPI as per Company approved ITP (inspection and test plan) and related approved procedures and should be report to Company and receive Company approval.

3.2.2. Wellhead Maintenance Services

Contractor shall provide a competent Wellhead Maintenance team to execute the planned wellhead lubricating tasks for Operating area of Sepehr-Jufair including wells.

Description of Wellhead Maintenance Service is as follow:

3.2.2.1. Lubricating the Stem Bearings:

1. Connect grease gun to grease fitting on bonnet cap.
2. Pump grease into the bearing cavity. Rotate the handwheel back and forth about 1/2 turn to distribute the grease.
3. Disconnect the grease gun.
4. Return valve to its normal operating position

3.2.2.2. Greasing the Valve Body

1. Close the valve.
2. Remove the protective cap from the bonnet bleeder plug. Use a back-up wrench to keep the bleeder plug from backing out of the bonnet.
3. Connect the grease gun to the bonnet bleeder plug (to connect PI on the gun discharge point).
4. Pump grease into the valve body until pressure build up.

Note: For proper valve functioning one needs to pump just enough grease to lubricate gate & seats, stem thread to lift nut connection.

5. Open valve slightly until pressure starts to relieved.
6. Continue pumping grease and operating the valve until the valve body is filled with grease.

See table (Grease quantities for body cavities), if filling the valve body cavity with grease completely.

7. Return the valve to its normal operation position.
8. Disconnect the grease gun from the bonnet bleeder plug fitting.



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9. Replace the protective cap on the bonnet bleeder plug.

Note: Contractor shall provide all necessary materials, equipment, and tools, including a grease gun with recommended grease, to complete the task satisfactorily.

3.2.2.3. Wellhead Maintenance Service Schedule

Table 6: Wellhead Maintenance Services Schedule

Wellhead Maintenance Service for valves of X-mas tree (5 valves)	Every 3 Months
Wellhead Maintenance Service for valves of X-mas tree and annulus side valves of wellhead (totally 12 valves)	Every 12 Months

3.2.2.4. Wellhead Maintenance Service schedule variation

Company may, at any time, require Contractor to modify (increase, decrease or cancel) the interval periodicity of task in above Wellhead Maintenance Services schedule according to actual requirement during running of this service.

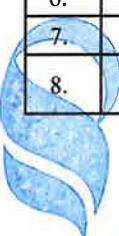
Any additional Wellhead Maintenance Services will be charged by task as lump sum cost for each task as specified in Appendix-2 Maintenance Compensation.

3.2.3. Technical Support by Vendors

The Contractor is responsible for facilitating vendor support as needed by the Company (by Call-Off) for equipment and facilities. This includes coordinating with equipment manufacturers or third-party service providers for specialized support, troubleshooting, maintenance, repairs, and upgrades. The Contractor is responsible for oversee timely availability, performance, warranties, and ensure that vendor support aligns with quality standards. The Contractor will provide the following vendor supports as per order by the Company:

Table 7: Vendor Support Requirements

Item	Description	Vendor
1.	LBV, HIPPS, Choke Valve, MOV, On-Off Valve, Manual Valve, DBB Valve	Behsazan Jonoob
2.	Multiphase Flow Meter Package	—
3.	Mobile Test Separator Package	—
4.	Pigging Operation	—
5.	DCS	—
6.	Fiscal Metering Package	—
7.	Wellhead Control Panel	Kardanan Shargh
8.	Coriolis, Control Valve	Piramoon Pardazesh Gheshm



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9.	Safety/Relief Valves	FAFCO
10.	Emergency Diesel Generator	Fars Diesel
11.	UPS	Amak
12.	AC UPS & Batteries, DC Charger & Batteries	Pars Kavir Arvand
13.	F&G System and Devices	Soshiant
14.	Connex	Padideh Sanat Behsan
15.	Flow Transmitter (DP)	Fara Sanat Arman
16.	Asphaltene and Corrosion Inhibitor Package, Injection Nozzle	Hydro Pars
17.	Flame Arrestor	Azar Energy Tabriz
18.	Insulating Joint, Stone Trap	Namdaran Petrogas Industries
19.	Manual Valve	Godakhtar

All cost of vendor personnel same as tickets, transportation, hoteling, shall be provided by contractor.

3.2.4. Special Repair of Valves

One of the special services provided is the repair of existing valves in the field, which must be carried out upon the request of the Company. The items related to the repairs are listed in Table 8, and the estimated quantities for each type of valve requiring repairs are detailed in Table 9.

Note: Contractor shall guarantee the execution and operation of the valves for Three (3) months after the repair actions. In case of any failure and obstacles in the cited period, the Contractor shall repair and replace the valves tools at its costs and services.

Table 8: Description of items for valve repair

Row	Description
1.	Opening and closing valves
2.	Servicing and cleaning
3.	Repairing valve body
4.	Replacing ball
5.	Repairing ball
6.	Coating ball (ENP)
7.	Coating ball (TC)
8.	Coating ball (HF)
9.	Replacing seat
10.	Repairing seat and installing Peek
11.	Replacing body gasket



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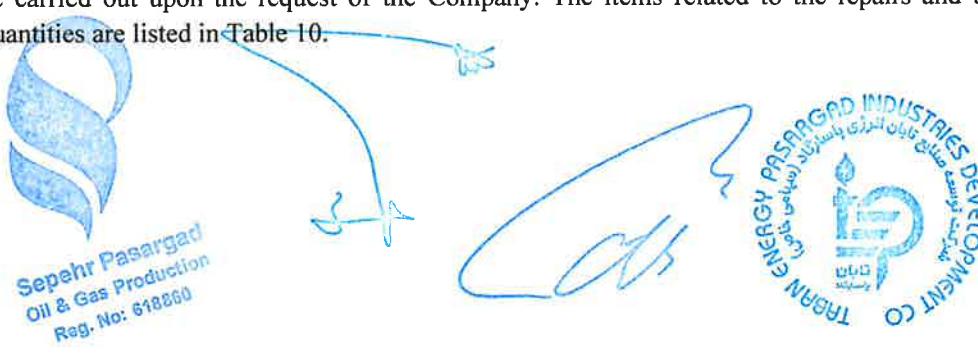
12.	Replacing gland packing
13.	Replacing seat packing or gasket
14.	Replacing seal kit
15.	Repairing seal kit
16.	Replacing Viton O-ring
17.	Repairing flange facing
18.	Repairing gear box
19.	Hydrotest (body, seat, back seat)
20.	Gas test (body, seat, back seat)
21.	Greasing gear box
22.	Greasing valve
23.	Replacing ½" vent and drain
24.	Replacing ½" grease connector

Table 9: Manual valve repair requirement

Row	Description	Estimated QTY
1.	Ball valve 7 1/16" API10000 Ball: 410+ENP seat:410+Peek	8
2.	Ball valve 4 1/16" API10000 Ball: 410+ENP seat:410+Peek	12
3.	Ball Valve 6" # 900 Ball: 410+ENP seat:410+Peek	8
4.	Ball Valve 12" # 900 Ball: 410+ENP seat:410+Peek	6
5.	Ball Valve 16" # 900 Ball: 410+ENP seat:410+Peek	2
6.	Ball Valve 18" # 900 Ball: 410+ENP seat:410+Peek	2
7.	DBB valve 2 1/16" API10000 Ball: 410+ENP seat:410+Peek	14
8.	DBB 2" #900 Ball: 410+ENP seat:410+Peek	16
9.	Gate valve ¾" #1500 carbon steel	8
10.	Gate valve 4" #300 carbon steel	8
11.	Gate valve 7 1/16" API3000 carbon steel	8
12.	Gate valve 8" #300 carbon steel	4
13.	Check valve 4" #600 carbon steel	4
14.	Check valve 6" #300 carbon steel	4

3.2.5. Special Repair of Actuator

One of the special services that must be provided is the repair of existing actuators in the field, which should be carried out upon the request of the Company. The items related to the repairs and their estimated quantities are listed in Table 10.



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Table 10: Repair of ESDV Actuators

Row	Description	Estimated QTY.
1.	Actuator Orientation: VTC, IP 65, Fail to Close, Fireproofing, SIL2 for 12" ball valve	6
2.	Actuator Orientation: VTC, IP 65, Fail to Close, Fireproofing, SIL2 for 16" ball valve	2
3.	Actuator Orientation: VTC, IP 65, Fail to Close, Fireproofing, SIL2 for 18" ball valve	2
4.	Actuator Orientation: VTC, IP 65, Fail to Close, Fireproofing, SIL2 for 6" ball valve	8

3.2.6. Special Calibration & Repair of Safety Valve & RTV & Relief Valve

One of the special services that must be provided is the calibration and repair of safety valves, RTVs, and relief valves, which should be carried out upon the request of the Company. The items related to the repairs and their estimated quantities are listed in Table 11.

Table 11: Requirements for Calibration & Repair of Safety Valve & RTV & Relief Valve

Row	Description	Estimated QTY. Size			
		1" X 3/4"	2"X3"	3"X4"	4"X6"
1.	Cleaning	4	4	4	4
2.	Servicing	4	4	4	4
3.	Lubrication	4	4	4	4
4.	Measuring seat and plug	4	4	4	4
5.	Calibration and adjustment	4	4	4	4
6.	Performance testing	4	4	4	4

3.2.7. Supplying Power by Diesel Generator

The Contractor shall provide diesel generator for areas as per Company request. Required diesel generators are as follows:

Table 12: Required Diesel Generators

Row	Location	KVA	QTY.
1.	Wells	50	24
2.	Manifolds	50	5
3.	RA Workshop and Warehouse	100	2
4.	RA Control Room	250	2
5.	RA Fire Fighting	500	


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TANAN ENERGY PASARGAD INDUSTRIES DEVELOPMENT CO.
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Provision of diesel for these generators is the responsibility of Company. But distribution of diesel from Receiving Area to mentioned locations is the responsibility of Contractor.

Contractor shall perform maintenance of diesel generators and provide all consumables such as Oil, filters, water and etc. Contractor shall consider the cost of maintenance and consumables in rental unit price of each diesel generator.

Diesel generator with the capacity more than the specified capacity in above table is not acceptable.

3.3. Other Services

The following services will be charged by manpower cost, machinery, equipment and material cost as specified in Appendix-2 Maintenance Compensation.

The services not specified in Appendix-2 are in accordance to the following work order procedure and are subjected to agreement by Contractor.

Work Order Procedure

The services shall be requested by Company according to the following Work Order Procedure.

1. Company shall complete and transmit to Contractor a service request specifying:
 - The scope of services required to be performed.
 - The deliverable documents.
 - The Company representative, to be contacted in case Contractor shall require further clarifications.
 - The Company representatives nominated to attend/witness the services and the specific Company assistance required.
2. Contractor shall furnish Company within three (3) working days, a proposal for carrying out the services including:
 - The Contractor personnel to be engaged on the Services.
 - The estimated number of man hour, equipment, tools and any other items required to perform the Services such as vendor specialists or special hardware/software, all together with an overall estimate of cost.
 - A budget proposal. (Based on specified unit-price specified in Appendix-2 related tables)
 - The location for performing the Services.
 - The schedule and duration of Services.


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- The data required.

3. Where the Services involve vendor support, Contractor shall provide the followings in the proposal:

- Vendor technical proposal
- Vendor commercial proposal

4. Where the Services involve the procurement of Goods, Company shall specify the list of the Goods to be procured and the relevant technical specifications and Contractor shall include in the proposal:

- An estimate of the Net Cost of the Goods to be procured. Providing at least three valid, official sealed quotations under the supervision of Company's representatives and bind an agreement with the lowest price proposal. The approved material, equipment, or services shall be provided as per the Company's instruction and Call-off order. The quotation evaluation report shall be submitted to Company.
- The delivery schedule for the Goods to be procured.

If Contractor is unable, for reasons not attributable to it, to submit such proposal within the above time frame, it shall promptly inform Company, stating the reasons for such inability and the parties shall agree on the more appropriate steps.

If Company agrees with Contractor's proposal, a Work Order shall be signed by Company Representative as authorization for Contractor to commence the Services. Contractor shall have no obligation to commence any Services until the Work Order is signed by Company and notified to Contractor.

Company shall review the proposal within 2 days and respond relevant decision to Contractor.

If Company does not agree to Contractor proposal, the Parties shall meet to discuss in good faith a possible solution.

If Contractor fails to provide requested work order, Company shall have the right to accomplish the work and deduct the work price plus 20 % from the total Ceiling price of the Contract. Also, Company has right to impose the penalty according to No.3 of Table 16 Clause 4 of Appendix-2 (Compensation).

If, in view of the circumstances, it is deemed necessary to amend the scope, time and/or cost of Services, Contractor shall provide Company with an amended Work Order for approval.

The Machinery and manpower and material of call off service are specified in Appendix-2.

Contractor shall be responsible, at its own expense, for the collection, segregation and removal wastes generated by Contractor as a result of the maintenance services within Operating Area. Such wastes shall be disposed according to local requirements and regulations.

This call of services shall include but not limited to the followings:



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3.3.1. Construction and Civil Work Maintenance

Company may ask Contractor to carry out minor construction and civil work repair including but not limited to:

- ✓ Access road repair
- ✓ Fence of Company facilities
- ✓ Modification of piping system
- ✓ Shelter Building
- ✓ Well pad and Burn pit repair
- ✓ Cellar repair
- ✓ Sub-sided locations
- ✓ Cleaning and repair services on waste pit and burn pit.
- ✓ Repair of concrete parts that would be damaged.
- ✓ Grading and leveling of well pads area.
- ✓ Graveling of well pad area.
- ✓ Removal of the existing unqualified material.
- ✓ Replacement of qualified earth works material.
- ✓ Earth work to repair of temporary cathodic protection system.
- ✓ Surveying of civil and earth work.

The performed tasks will be evaluated and certified by Company or a third party.

Contractor shall hire a laboratory Company to execute all related test belong to Material Test, soil, sub-base and base material, Aggregates, asphalt layer and concrete test. Contractor is responsible for laboratory information and all of test sheets shall be Company.

The contractor may need to utilize additional resources to perform civil work repairs according to specified work order request and procedure. This includes, but is not limited to, the implementation of more intensive measures based on the following measures and related standards;

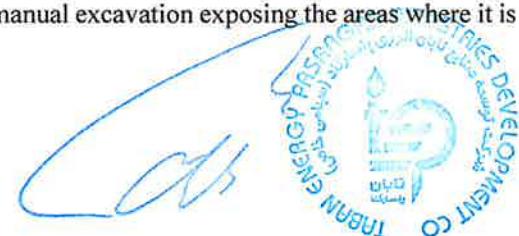
3.3.1.1. Receiving Area, Jufair Cluster, Manifolds and Well pads sub-sided locations

Damaged and sub-sided locations shall be repaired within the following procedure.

1. Identify and examine all damaged locations.
2. Open up damaged location by mechanical or manual excavation exposing the areas where it is well



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compacted. The area well compacted will be tested and if pass the 90% compaction test the succeeding layer shall continue.

3. Start the 150mm layer filling and compaction. Every layer should pass the 90% compaction requirements.
4. Gravel filling shall be done in accordance to the existing gravel fill level.
5. All compaction tests shall be compiled and submitted to the Company after completion of the sub-sided repair.

3.3.1.2. Damaged Roads and Sub-sided pipe Crossing

Damaged roads and sub-sided pipe crossing shall be repaired within the following procedure:

1. Identify and examine all damaged locations. Care shall be taken not to damage the concrete pipe casing. Hand excavation shall be performed at least 20 centimeters before the pipe casing.
2. Open up damaged location by mechanical or manual excavation exposing the areas where it is well compacted. The area well compacted will be tested and if pass the 90% compaction test the succeeding layer shall continue.
3. Start the 150mm layer filling and compaction. Every layer should pass the 95% compaction requirements.
4. All road shoulder shall be restored and compacted according to the existing shoulder conditions.
5. Asphalt final layer shall be considered.
6. All compaction tests shall be compiled and submitted to the Company after completion of the road repair.

3.3.1.3. Technical Requirements and Specification

Sub-Base Course:

Sub-base course shall be of suitable granular materials (0-37.5 mm) consisting of: supply, loading transportation, distribution levelling and compacting to 100% modified AASHTO method.

The used material for sub-base layer which are provided from the river bed from the existing gravel and sand mines, shall have the following technical specifications:
Grading of sub base material shall follow the sizes at following table as below:

Table 13: Sub Base Material Gradation Requirements

Standard Sieve Size	Weight Passed through Sieve
100	(1.5 inch) 37.5 mm





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90-100	(1 inch) 25 mm
55-80	(3/8 inch) 9.5 mm
40-60	(No. 4) 4.75 mm
28-48	(No. 10) 2 mm
14-28	(No. 40) 0.425 mm
5-12	(No. 200) 0.075 mm

The other specifications related to the sub base layer material which are achieved after the soil mechanical tests on the samples, shall be based on the following requirements:

- In liquid limit (L.L.) test according to T90 and plastic factor (P.I) by AASHTO method T89 on the grains passed through the sieve No. 40. The above-mentioned limits shall not be more than respectively 25 and 6 percent.
- The sand value (S.E) of the grains passed through the sieve No. 40 in test by T176 method shall not be less than 30.

Cement

Unless otherwise specified, the cement shall be Type II that conforms to ASTM C 150 blended with up to 10% silica fume conforming to ASTM C 1240.

Sand

For preparation of mortar or concrete, washed natural sand or crushed sand shall be utilized. The consumable sand shall be clean and without any clayey or organic matters.

Gradation of sand being used in mortar or concrete shall be according to the following table:

Table 14: Sand Gradation Requirements

Sieve Size	Percentage (By Weight) Passed from Sieve
4.75 mm (No. 4)	100
2.10036 (No. 8)	95-100
0.15 mm (No. 100)	Maximum %25
0.075 mm (No. 200)	Maximum %10

Other characteristics of sand shall be as follows:

- Amount of Clayey particles: Max % 10
- Amount of light weight sand: Max % 0.5
- Color or organic substances: More than standard liquid
- Loss of weight in Sodium-Sulphate in 5 test cycles: Max %10
- Sand Equivalent value: Min %60

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- Softness Factor: %1.2 ~ %2
- If color of sand after performing organic test, to be darker than "standard liquid" and mortar's 7 Days compressive resistance according to T17 to be less than 95% of mortar 28 Days compressive resistance, sand used in mortar in mortar mix is un-useable.

Sand, Cement Mortar

Approximate ratio for mixing sand, cement and water are according to the following table:

Table 15: Sand, Cement Mortar Mix Design

Type of Mortar	Mixing Ratio Cement/Sand	Cement (Kg)	Sand (m3)	Water (Liter)	Min 28 Days Compressive Strength (Kg/Cm2)
I	1:3	360	0.94	258	220
II	1:4	285	0.99	260	135
III	1:5	225	1.00	262	75
IV	1:6	200	1.033	265	40

If within one hour of adding water to mix of sand and cement, all mortar not being used in masonry, if the remainder hardens, no matter water being added to give more fluency to mortar, under no circumstances it is allowed to be used in masonry.

Water

The maximum total water/cement ratio shall not be greater than 0.45 water used for mixing and curing of concrete shall be clean and free from harmful percentages of salt and other heterogeneous substances. regarding the existence of high sulphate and chlorate in the water of Chamran and Salman channels; it is necessary to use the water of Howayzeh for producing the concrete.

Concrete

All materials shall conform to the appropriate internationally recognized Standards approved by Company, and when required Company's representatives may ask for certificates of compliance to be submitted for all materials, including proprietary materials. Maximum content of chloride by weight of aggregates:

Content	Fine Aggregates	Coarse Aggregates
Chloride (Cl)	0.05%	0.03%
Sulphates (SO3)	0.15%	0.15%

The total chloride content of the concrete mix shall not exceed 0.12% by weight of the cement in the mix. The total sulphate content of the concrete mix shall not exceed 4% by weight of cement in mix and expressed as SO3 shall be calculated from the sulphate derived from the cement, any other cementations material, the aggregate, any admixtures and any other source. Maximum alkali content of the concrete mix shall not exceed 3kg/m3. Unless otherwise specified, the cement shall be Type II that conforms to ASTM C 150 blended with up to 10% silica fume conforming to ASTM C 1240.

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The fine aggregates shall consist of natural sand or crushed stone and the coarse aggregates of natural gravel or crushed stone, all obtained from sources approved by Company's representatives.

Sampling and testing of aggregates when required by Company shall be carried by Contractor. samples shall be taken and sent to a testing laboratory approved by Company.

Steel reinforcement shall be of Iranian manufacture in accordance with German Standard "Deutsche Normen" DIN 1045. The steel shall be high yield deformed bar with a strength equivalent to the German grade ST 42 (minimum yield stress 4000 kg/m²). Plain mild steel bars to grade ST 37 may be used for stirrups or links only.

Cement in sacks or bags shall be stored in waterproof, ventilated sheds, and the floors of the sheds shall be kept clear of the ground or otherwise protected from dampness. The cement shall be stored in such a way that the oldest deliveries are used first. Bagged cement shall not be stored higher than 10 bags. Re-bagged cement shall not be used. If bulk cement is used it shall be stored in a type of container approved by Company representative.

Contractor shall ensure that adequate supplies of the approved aggregates are available prior to commencing work and shall at all times maintain on site quantities of each type of aggregate as are considered by Company representative to be sufficient to ensure continuity of work.

Reinforcement shall be stacked on packing or stored on suitable racks so that it is well clear of the ground. Reinforcement may be left uncovered, but not for such time as it becomes pitted with rust or suffers reduction in cross-sectional area.

The slump of fresh concrete shall be tested in accordance with ASTM C 172, C 685 and C143.

Note: In all concrete works, Contractor is responsible to provide required material for concrete works, store them in his storage area at site and obtains approval for qualification of materials and their compliance with the technical requirements, specifications and laboratory reports and inquire the suitableness of machineries from supervisory body for being engaged in site works.

Gravel:

Gravel shall be used for covering of surfaces of the areas and providing proper drainage surface in most of the locations.

Execution consists of: supply, loading, transportation, dumping and spreading crushed gravel $\frac{3}{4}$ inches. In addition to the above-mentioned requirements, following table indicates the technical specification for implementation of gravel:

Table 16: Gravel Gradation Requirements

Standard Sieve Size	Weight Passed through Sieve
100	(1.12 inches) 38 mm
95-100	(1 inch) 25 mm



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20-60	(1/2 inch) 12.5 mm
0-10	(No. 4) 4.75 mm

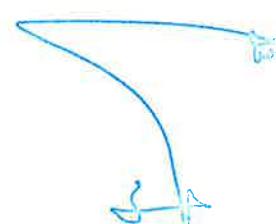
Lime

Lime shall be used for bed stabilization in muddy area. The required proportion of lime which must be mixed with qualified local soil is variable between 5% up to 20% at discretion of Company representative.

3.3.2. Modifications and Overhauls

Unscheduled major maintenance, modification and condition maintenance which are not included in Section 3.1 Maintenance Jobs and according to the work order from Company. Unscheduled maintenance, overhaul or repair of production and utility equipment/system include but not limited to:

- Renew Distributed Control System (DCS) of Jufair cluster
- Renew electrical room of Jufair cluster
- Maintenance and overhaul of separator, air compressor, motor, engine, generator, transformer, switchgear, UPS, pumps, overhead gantry-crane, compressor, control valve, telecom system, HVAC and etc. The Contractor shall perform any required overhaul services as per Company's request.
- Carry out modifications to the capital asset value of the facilities, or where the design is retrospectively altered during the operations phase.
- Pipeline repair and replacement in case of a leakage, damage, corrosion and etc. as per related ITP and approved Company Procedure.
- To do quantitative and qualitative periodic tests for the equipment lubricators according to the manufacturer's guidelines and standards.
- Pipeline coating
- Cathodic protection repair
- Electrical power transmission system services
- To do machining/turning, balancing, all types of industrial welding, hot tap, and pipeline wrapping.
- To do cold and hot insulation of all devices, equipment, pipes, and fittings.
- Major maintenance and overhaul of motor, engine, generator, transformer, switchgear, UPS, pumps, overhead gantry crane, control valve, telecom system, HVAC and so on.



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3.3.3. Maintenance and Repair of Wellhead and Wellhead Facilities

The major scopes of work in this regard are as follow:

- To repair of the wellhead, X-mas tree, and wellhead equipment including but not limited to SSV, X-Mas tree valves, DSA Pack Off, tubing head adaptor, casing and tubing head spools.
- To repair and replace the wellhead equipment, X-mas tree, unilateral and bilateral valves of casing and tubing head spools and base flange.
- To repair piping and flow line related equipment including but not limited to ESDV, HIPPS, mechanical and instrument devices.
- To provide and install any connections and converters required for injecting any fluid into the well and connecting the equipment to the well.
- To dismantle and re-install surface facilities prior and after well intervention services.

3.3.4. House Keeping and Waste Disposal

For services which are not included in section 3.1.3 and according to the work order from Company.

- Carry out collection, segregation and disposal of solid and liquid wastes and contamination generated by Company's production operations or any unexpected failure. Such wastes shall be disposed according to local requirements and regulations HSE RULES AND REGULATIONS" stated in Appendix 3. (This does not include wastes generated due to Contractor's Services, which should be removed by Contractor after completion of the Services.)
- To help and cooperate with field operation team when required in tasks including but not limited to choke size change, valve and equipment dismantling, stone trap inspection, preparing well location for well intervention operation and takeover of well location after well intervention operation, dissemble/assemble fences, dissemble/assemble surface facilities after production wing valve.

3.3.5. Call-Off manpower

Contractor shall provide required manpower to perform services specified in section 3.2.7 Supplying Power by Diesel Generator

The Contractor shall provide diesel generator for areas as per Company request. Required diesel generators are as follows:

Table 12: Required Diesel Generators

Row	Location	KVA	QTY.
	Wells	50	24
	Manifolds	50	5



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	RA Workshop and Warehouse	100	2
	RA Control Room	250	2
	RA Fire Fighting	500	2

Provision of diesel for these generators is the responsibility of Company. But distribution of diesel from Receiving Area to mentioned locations is the responsibility of Contractor.

Contractor shall perform maintenance of diesel generators and provide all consumables such as Oil, filters, water and etc. Contractor shall consider the cost of maintenance and consumables in rental unit price of each diesel generator.

Diesel generator with the capacity more than the specified capacity in above table is not acceptable.

Other Services as below table:

Table 17: Manpower Required for Other Services

Item	Manpower as Per Requirement of the Contract	Quantity (A)	Day (B)
1.	Maintenance Foreman	1	80
2.	HSE Officer	1	50
3.	Civil Expert	1	30
4.	Electrical Maintenance Technician	1	80
5.	HVAC Maintenance Technician	1	50
6.	Fixed Mechanical Maintenance Technician	1	50
7.	Rotary Mechanical Maintenance Technician	1	50
8.	Instrumentation Maintenance Technician	1	50
9.	Corrosion Technician	1	50
10.	Piping Technician	1	50
11.	House Keeper	1	70
12.	Worker	1	700
13.	Wellhead Man	1	70
14.	Workshop Technician	1	70
15.	Scaffolder	1	100
16.	Painter	1	30
17.	Welder	1	70
18.	Argon Welder	1	30
19.	Sandblast Operator	1	30
20.	Rigger	1	50
21.	Armature Mount Man	1	30



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Item	Manpower as Per Requirement of the Contract	Quantity (A)	Day (B)
22.	Plumber	1	30
23.	Mason	1	20
24.	Rebar Worker	1	20
25.	Surveyor Engineer	1	30

3.3.5.1. Contractor Manpower Qualification Requirements

Contractor personnel shall meet the below qualification:

Table 18: Manpower Qualification Requirements

Item	Position	Requirements
1.	Skilled Worker (Welder Helper, Surveyor, Draftsman, Mount Man, Plate Installer, Rigger, Painter, Mason, Glazier, Skilled Labor, Pipe Fitter, Plumber, Carpenter, Millwright, Grader Man, Sandblast Operator, Hazardous Area Worker)	At least Diploma with 2 years' experience in Industry. With the maximum age of 35 years in principle
2.	Workshop Technician	At least 5 years' experience in Petroleum or relevant Industry. At least B.S. in relevant field.
3.	Surveyor Engineer	At least 5 years' experience in relevant Industry. At least B.S. in relevant field.
4.	Welder	At least Diploma with 4 years' experience in Industry. With the maximum age of 35 years in principle
5.	Argon Welder	At least Diploma with 4 years' experience in Industry. With the maximum age of 35 years in principle

3.3.6. Special Equipment

Contractor shall provide equipment which are required to perform Other Services efficiently as per Company request according to the below table:

Table 19: Equipment Requirement

Description	Quantity
Air Compressor 250 cfm	1
Air Compressor 60 cfm	1
Hydraulic Pipe cold cutting equipment (2"-24")	1
1 Ton chain pulley block	1
5 Ton chain pulley block	1
Industrial Jet wash machine with portable water tank (hot water)	1
Diesel Generator 10 KVA	1
Portable welding machine	1



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450-amp welding set (electrical)	1
Battery Tester	1
Magnetic Vertical Drilling Machine	1
Pipe hot cutting equipment	1
Airless paint set with two guns and hose	1
Grit blasting equipment include grit	1
Sandblast machine	1
scaffolding pipe with Clamp and timber (m3)	50
30-ton hydraulic jack	1
Hi-Force Hydraulic Torque Wrenches	1
Megger Tester	1
Retriever Class 10000 2 1/16" flange Type	1
Retriever Class 900 2" Flange type	1
HART 475	1
Comparator 0-700 BAR Crystal	1
hydraulic hand pump 0-700 barg	1
Clamp multimeter/multi meter	2
Half-cell Cu/CuSO4	2
Hi-Pot	1

3.3.7. Machinery Provision

Contractor shall provide the machinery with operator, driver and assistants which are required to perform scope of work efficiently as per Company request according to the below table:

Table 20: Monthly Requirement of Machinery

Description	Quantity
Septic Tank Pumper Truck- 30000 lit	1
Boom Truck 5 ton	1
Boom Truck 10 ton	1
Lift Truck 7 ton	1
Lift Truck 5 ton	1
Crane 30 ton	1
Vacuum Truck Equipped with Pump- 5000 liters	2
Mobile Potable Water Tanker 30000 liters with Pump	2
Mobile Service Water Tanker 30000 liters with Pump	1
Mobile Diesel Tanker 8000 liters with Pump	2

Table 21: Per Case Requirement (Daily) of Machinery

Vacuum Truck - 5000 liters	1
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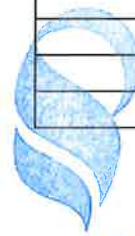
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Lift Truck 3 ton	1
Boom Truck 3 ton	1
Boom Truck 5 ton	1
Boom Truck 10 ton	1
Boom Truck 15 ton	1
Crane 25 ton	1
Cat 235 Excavator or equivalent	1
Cat 950-wheel type loader or equivalent	1
Backhoe loader	1
Cat 751 pipe layer or equivalent	1
10 Ton Vibratory Roller	1
Pedestrian Roller	1
Plate Compactor	1
Core drilling Machine	1
Concrete Mixer 1.5 m ³	1
Dump Truck 10 ton	1
Dump Truck 15 ton	1
Dump Truck 20 ton	1
Low-bed Trailer	1
Long-bed Trailer	1
Flatbed Truck (5 ton)	1
Flatbed Truck (10 ton)	1
Flatbed Truck (15 ton)	1
Flatbed Truck (30 ton)	1
Crane 50 ton	1
Overhead Line Bucket Truck	1
Mobile Water Tanker 10000 liters with Pump	1
Mobile Diesel Tanker 8000 liters with Pump	1
Motor Grader 9 ton	1
Motor Grader 12 ton	1
Asphalt Finisher Machine	1
Pneumatic Roller (Asphalt Compactor)	1
Tandem Vibratory Rollers	1
Tar Pouring Machine	1
Skid steer loader (Bobcat)	1
Concrete Pump	1
Diesel pump	1
Bore hole Drilling Machine Rotary	1



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3.4. Procurement Services (Services, Material and Consumables)

Contractor is obligated to procure Company requested items including but not limited to material, services, lubricants, consumables and etc. through the procurement procedure approved by the Company.

If Company requests any materials and maintenance services that are not specified in related tables, Contractor is obligated to obtain at least three valid, official sealed quotations under the supervision of Company's representatives and bind an agreement with the lowest price proposal. The approved material or services shall be provided as per the Company's instruction and Call-off order. The pure and approved prices will be compensated with 15% overhead to the Contractor.

In any case of materials and goods currency fluctuation regarding providing requested materials and equipment, based on the Company's discretion, the Contractor shall obtain at least three valid, official sealed quotations under the supervision of Company's representatives. Unit Prices and further materials and equipment providing will be execute according to this term. In this case, after the Company's approval, the pure and approved prices will be compensated with 15% overhead to the Contractor.

3.5. Technical and Planning Services

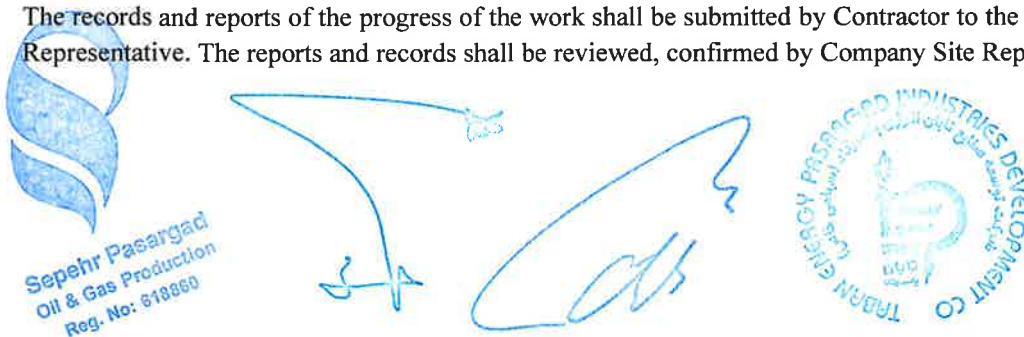
The major scopes of work in this regard are as follow:

- To gather data as an input to CMMS system under supervision of Company
- To print a hard copy of the daily work order from the CMMS and obtain Company Site Representative written approval on each work order.
- To report any issues/problems encountered in utilizing the CMMS to Company within 24 hours.
- To match the data and information in the system with maps and technical documents.
- To analyze the reasons of machinery failure, find the root causes, identify recurring factors, and provide a solution for them.
- To update technical documents of the equipment and facilities based on changes, modifications, and the Company's request.
- To prepare and submit daily, weekly, monthly, quarterly, yearly reports of all repairs, goods and spare parts, manpower, and other information required by the Company.

3.6. Records and Reports

Contractor shall utilize the provided formats for reports and orders by Company.

The records and reports of the progress of the work shall be submitted by Contractor to the Company Site Representative. The reports and records shall be reviewed, confirmed by Company Site Representative.



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3.6.1. Daily Service Progress Report

Contractor shall submit daily progress report to Company Site Representative every day. The report shall include details of services performed, man hours, equipment and/or material utilized in association with issues and concerns that need further actions.

3.6.2. Monthly Service Progress Report

Contractor shall submit monthly progress report to Company at the end of each month. The monthly service progress report shall include:

- Man hours
- Summary of maintenance, inspection, and operation activities
- Root cause analysis of machines and facilities malfunction
- Detailed analysis of corrective maintenance activities
- Delays, causes and remedial actions

3.6.3. Service close-out Report

The service close-out report provides all the required service data specified in the Work Order including any calibration and test certificates and report for maintenance record. In addition to submitting the operational procedures before each service, Contractor is responsible for submitting daily reports and final technical reports during and after each service.

3.6.4. Daily Timesheet Report

The Contractor shall provide accurate timesheet reports on a daily basis of each work requested by Company. Contractor shall provide detailed actual Services report verified by Company; the progress measuring system shall be approved by Company.

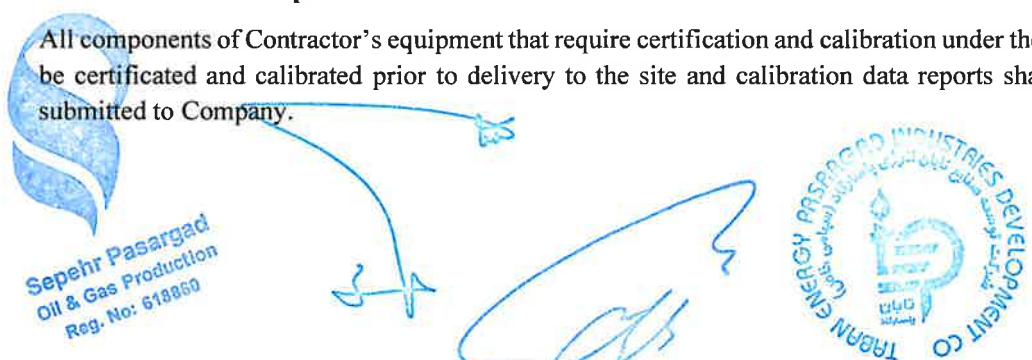
3.6.5. Performance Assessment

The Company Site Representative and Contractor Site Representative shall communicate regularly to assess the performance of the Contract.

Contractor shall provide all necessary supporting documentation for assessment of performance of the Contract.

3.6.6. Calibration Report

All components of Contractor's equipment that require certification and calibration under the Contract shall be certificated and calibrated prior to delivery to the site and calibration data reports shall be routinely submitted to Company.



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3.6.7. Equipment Failure and Non-productive Time Report

For occasions that any Contractor Item fails to operate in the manner for which it is intended and which results in disruption to the work or Contractor being unable to commence the work, Contractor shall report such failure(s) within twenty-four (24) hours in the daily report. The report shall have detail cause of failure, duration of failure, consequence on performance of the work in terms of non-productive time, action taken to remedy failure and to prevent recurrence. The Contractor shall cooperate and provide assistance on any investigation or audit such failure required by Company.

3.6.8. HSE Weekly and Monthly Report

The Contractor shall issue weekly and monthly HSE reports to the Company the format of which shall be as required by the Company.

3.7. Acceptance of Services

Performing the Service in accordance with the parameters specified in the Contract shall be subject to Acceptance by Company.

3.7.1. Service Requiring Acceptance

The following Work shall only be completed once the results are accepted by Company:

Table 22: Service Acceptance Criteria

Service Requiring acceptance	Acceptance Criteria
Certification / Calibration and pressure test	All equipment shall have a valid certification, pressure-rated and suited to work in H2S, C02 environment. Certification / Calibration and pressure test Satisfactory tests performed and recorded.
Work Program	Contractor shall submit a sufficiently detailed Work Program to Company for the Services requested, allowing Contractor supervisor to execute the Service
Area Cleaning before leaving the Work Locations as and when required	No debris left on site and waste properly treated and disposed of in accordance with HSE requirements stated in Appendix-3 (HSE Rules and Regulations)

4. Contractor's Organization

Contractor shall perform the services via an experienced dedicated team.

4.1. Human Resources Management Policies

- The Contractor shall pay the salary and benefits package of its accounts before 5th day of each Iranian month.
- The Contractor shall pay the salary of its personnel (including the base salary, benefits, payments for improper weather and temperature conditions and for lack of proper life facilities at the place



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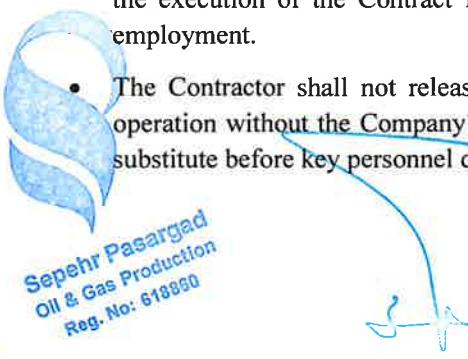
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of working), housing allowance, food allowance, leave, years of experience, regional rates, transportation allowance, food charges, new year payments and bonuses, family allowance, SSO and tax payments and all labor law allowances. The Company shall have no responsibility in this respect.

- Contractor should add the personnel salary in the new year according to the government declaration. Company has no responsibility in this regard.
- All personnel shall have a military service card, a non-criminal record, a non-addiction confirmation.
- Company has no liability and no responsibility for Contractor's personnel legal complaint in the court or in the labor office.
- The payment of the personnel unlimited child allowances is Contractor responsibility. The Company shall have no responsibility in this regard.
- Contractor personnel are never considered as Company personnel.
- Contractor is responsible for the damage; loss or death occurs to the personnel or the third-party Contractor's personnel. Company has no responsibility for any legal or financial consequences.
- Recruiting new personnel is possible only by getting the Company's approval.
- Contractor can grant bonus to its personnel according to their agreement in their contract. The Company shall have no responsibility for later legal claims for bonus.
- The Contractor shall pay and settle mission, overtime and other labor act allowances of its personnel on time. The Company shall have no responsibility in this regard.
- The Contractor shall conduct pre-employment noncriminal records and medical checkups at its own cost for all of the personnel regularly (at least once a year).
- The Contractor shall install enough systematic attendance machines in each location to meet the number of personnel at the project. Contractor shall establish access to attendance system for Company, so that the Company can control the personnel timesheets.
- Contractor shall prepare the timesheet systematically.
- The Contractor shall submit to Company the resume of its key personnel who are nominated for the execution of the Contract for review and the Company will make the final approval for employment.
- The Contractor shall not release key personnel whose attendance has a solemn effect in the operation without the Company's prior agreement. The Contractor shall introduce an acceptable substitute before key personnel dismissal or transfer.



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- The Contractor shall prepare and responsible for travel cost and transportation of its personnel from their origin to the destination and vice-versa. The Company shall have no responsibility in this regard.
- Company should have access to the Contractor's personnel information such as ID, passport No, etc.
- The Company can request for dismissal or transfer the Contractor's personnel, regardless of the Company's prior approval.
- The Contractor shall provide ID cards and gate pass for its personnel to enter the project.
- The Contractor shall not employ the persons who are permanently or temporarily or on a contractual basis are working for the Government, retired or on unpaid leaves, or disabled veterans.
- The Contractor shall specify the job description for its personnel and to obtain the Company's approval on it.
- The Contractor's priority for hiring its personnel shall be the local people and the residents of the work execution area.
- At the commencement date of the Contract, the Contractor shall obtain health certificates from the health and treatment centers for all of its personnel and must submit it to the Company. The Company shall not make any extra payment in this respect to the Contractor.
- Every 6 months, the Contractor shall replace the uniforms of its personnel and shall provide two sets of uniforms to any and all of them at the time when they begin to work. payment of any money instead of providing brand-new uniforms, shoes and other accessories is absolutely forbidden.
- In case of cancellation of the Contract, the Contractor shall pay the wages and salaries of its personnel according to the applicable laws and regulations. Company has no responsibilities in this regard.
- Contractor shall be bound to obtain Company's approval prior to employment of its personnel under this Contract. This paragraph does not release Contractor from any responsibilities and commitments related to its manpower under the Contract and Laws and Regulations.
- Contractor shall provide and install, at its own cost, a device like biometric attendance recorder including finger print and face detection function to count up the exact daily quantity of all Contractor's direct and indirect personnel, as well as Contractor's Personnel who attend the Sepehr-Jufair Oilfield Worksite. The device should be functional to print the quantity out which should be approved by Company and Contractor representatives every day after working finish time. Contractor shall submit to Company Representative such attendance daily report for review and approval, which shall be attached to the monthly invoice as payment supporting documents.

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4.2. Contractor Site Representative

Contractor shall introduce a Site Representative (as Maintenance Coordinator) who will carry the full responsibility at the Operating Area. Contractor Site Representative is responsible for managing the Contractor equipment, tools, special tools and personnel and shall ensure the quality of performance of the work and services delivery. Contractor Site Representative shall be in close interaction and cooperation with Company Site Representative. Contractor Site Representative shall have full authority from Contractor side to resolve day to day matters arise between Company and Contractor.

4.3. Number, Selection, Remuneration and Administration

Except as otherwise stated in this Contract, the selection, replacement, hours of work, and remuneration of Contractor personnel shall be determined by Contractor and approved by Company. Such employees shall be the employees solely of Contractor.

Contractor shall be responsible for the administration of, and all costs, expenses, and liabilities connected with such personnel furnished by Contractor.

In particular, with respect to such Contractor Personnel, Contractor shall without limitation be responsible for all documents required, including, but not limited to, passports, visas, labor or work permits, residence permits, entry permit of the field, driving licenses, health certificates, and all other licenses and permits required for Contractor personnel to work on and with and to operate Contractor Items.

4.4. Personnel Acceptance

Contractor shall ensure that all Contractor personnel, including competent English-speaking Key personnel, required to perform the work are qualified by training and certification, skilled and experienced to perform such work. Contractor shall promptly replace, at sole expense of Contractor, any Contractor personnel who does not perform satisfactorily in the sole opinion of Company. Contractor shall provide written resumes of key personnel to Company in advance and obtain Company approval. Company may conduct an official interview prior to approving the proposed key personnel.

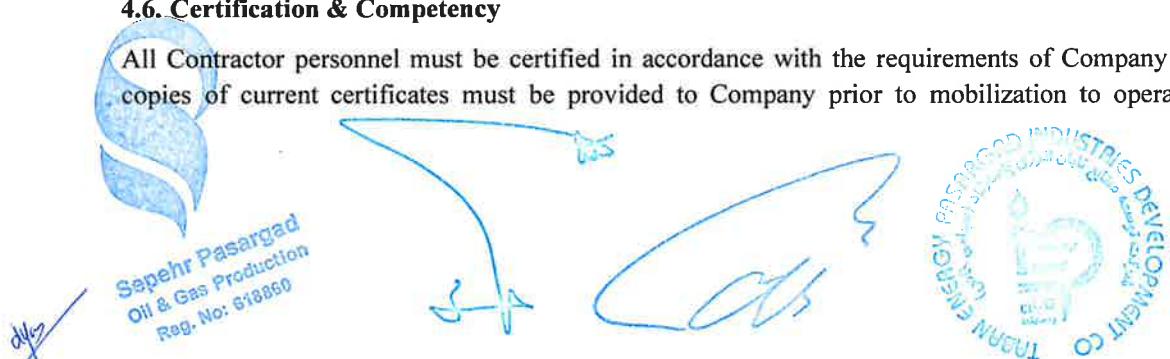
Contractor shall fully follow Iranian labor laws and regulations.

4.5. Personnel Movements

In order to preserve continuity of performance of the work, Contractor shall manage its personnel and shall advise Company in writing of all leave schedules and other transfers of Contractor personnel and shall endeavor as far as possible to avoid changes other than normal leave rotation.

4.6. Certification & Competency

All Contractor personnel must be certified in accordance with the requirements of Company and three copies of current certificates must be provided to Company prior to mobilization to operating area.



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Contractor is responsible for obtaining acceptance from Company prior to the commencement of services of any of Contractor personnel.

Contractor is required to submit personnel resumes to Company prior to mobilization of key personnel, confirming relevant personal details, qualifications, certification, and work experience of the proposed key personnel. Company reserves the right to refuse acceptance of Contractor personnel and to request immediate replacement of such assigned Contractor personnel at any time during term of this Contract.

5. Contractor's Personnel Transport

The Contractor is responsible for providing transportation (for shift changes and daily shuttles) for all Contractor Personnel to the Sepehr-Jufair Oil Field at no additional cost. However, The Contractor must also supply vehicles necessary for the satisfactory execution of assigned duties as per Company requirements, both within and beyond the Sepehr-Jufair Oil Field.

All the light vehicles shall be fully equipped with the following equipment and accessories:

- First Aid Kits and tools
- Spare tire and changing tools
- Valid fire extinguisher
- Air conditioner
- Seat belt for all seats
- New tires
- Maps of Iran and Khuzestan province
- GPS system
- Hazard triangle

All the vehicles manufacture's date shall be above year 2016.

The Contractor shall provide minimum vehicle as per table below:

Table 23: Minimum Requirements of Contractor Vehicle

Row	Description	QTY.
1.	Hyundai Santafe	1
2.	TOYOTA Hilux 24 hr (Diesel)	2
3.	TOYOTA Hilux 12 hr	4
4.	TOYOTA HIACE	1

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Contractor shall fully comply with and provide all equipment and facilities specified in "HSE Rules and Regulations" stated in Appendix 3.

7. Camp and Offices

The Contractor is responsible for providing appropriate camp, office, facilities and catering services for its personnel. In addition, the Contractor is responsible for purchasing, providing and delivering 10 new Connex to Company. Contractor shall also provide catering for 10 Company Personnel. All related cost shall be covered at the Mobilization/Demobilization and Supporting Services costs. Contractor is responsible for camp running service including but not limited to diesel supply, water supply, utility maintenance, HSE services (including waste management, pest control and etc according to Appendix-3), catering services, hoteling, gardening, etc.

Note: In case of withdrawal from the supply or failure to provide 10 Connex to the Company per the agreed terms and features, the total Mobilization costs will not be paid to the Contractor.

At the end of the Contract, Company shall have the right to purchase the camp, offices and all provided infrastructure from Contractor according to the lowest price estimated by three Approved Justice experts otherwise Contractor shall demobilize the facilities.

Contractor shall have a site service camp necessary for the satisfactory performance of the Service located at instructed location by Company within Sepehr-Jufair oil field. Site service camp shall comprise a yard/workshop, offices, accommodations, and storage area for Contractor Items and Personnel. The minimum requirements of camp service are specified as follows:

7.1. Contractor Camp and Office Specification

- Enough Connexus with dimensions of 3 meters * 6 meters for technician/worker levels, each one equipped with:
 - Two Beds with Bed mattresses, head pillows, linens, and blankets.
 - Showery room and Toilet equipped with hot water
 - LCD TV
 - Refrigerator
 - Two Wardrobes
 - One Desk
 - One Easy chair
 - Electrically heated and insulated c/w escape type windows
 - Zebra curtains for the window
 - Internet access
 - Suitable Heating & Cooling Systems
 - Electric kettle and Cups, Dishes and other utensils
 - Smoke detector



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- 3 Connex with dimension (12 meter *3 meter) for Kitchen and Dinery Room and one Connex with dimension (6 meter *3 meter) for food Warehouse with shelves
- 4 Connexus with dimension (12meter *3 meter) as Office, each one equipped with:
 - Table and chairs
 - Stationary supplies
 - White-board
 - Internet access and Network System
 - Refrigerator
 - Portable Color Printer, Copy Machine and Scanner
 - Suitable Heating & Cooling Systems
 - Telephone System
 - Office Closets
 - office hot & cold-water dispensers
- 1 Connex with dimension (12meter *3 meter) as Conference room with the capacity of 15 people equipped with:
 - Suitable table and chair
 - Suitable network and Internet system
 - Projector with screen display
 - Suitable sounding system
 - Suitable Heating & Cooling Systems
 - Local Telephone system
- 1 Connex with dimension of (6 meter *3 meter) as laundry room equipped with:
 - Two industrial washing machines
 - Suitable Heating & Cooling Systems
 - One industrial steam iron
 - Water heating system for washing machines
- 1 Connex with dimension of (2 meter *2 meter) as security room equipped with:
 - Suitable Heating & Cooling Systems
 - One chair and table
 - Local Telephone system

Contractor shall consider and implement the following infrastructures and complementary facilities including but not limited to:

- Preparation, proper compaction, water channels (if required) and foundation of camp and offices
- A suitable poly ethylene septic tank (20000 liters) with all piping and accessories with suitable and proper concrete foundation
- Earthing and lightening system



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- Lighting System
- Firefighting system including smoke detectors (for all Connex) and main control panel
- Electrical and cabling system
- Fence around the camp and offices with two gates
- 1 Diesel storage tank (30000 liters) with proper dike, shelter and a proper concert foundation
- 2 water storage tanks (30000 liters), equipped with pumps and accessories with shelter and a proper concert foundation with electrical related pump
- Two diesel generators 400 KVA with shelter and a proper concert foundation,

7.2. Accommodation for Company Personnel

10 Mammut Brand Connex with dimensions of 3 meters* 6 meters for senior levels, each one equipped with:

- One Bed with Bed mattress, head pillow, linen, and blanket. (Khoshkhab & Golbaft or another brand with the same quality)
 - Showery room and toilet equipped with hot water (Wall-mounted water heater included)
 - LCD TV (32" LG/Samsung or another brand with the same quality, Digital receiver included)
 - Refrigerator (6 ft Eastcool or another brand with the same quality)
 - Two Wardrobe (Iranian Brand)
 - Desk (Iranian Brand)
 - Easy chair (Nilper or another brand with the same quality)
 - Electrically heated and insulated c/w escape type windows
 - Zebra curtains for the window
 - Internet access
 - Suitable Heating & Cooling Systems (Evvoli 24000 Air conditioner with cooling and heating capabilities)
 - Electric kettle (Parskhazar or another brand with same quality) and Cups, Dishes and other utensils (Iranian Brand)
 - Standing clothes hanger (Iranian Brand)
 - Local Telephone system
 - Smoke detector

8. Food

Contractor shall provide the daily meals according to the menus detailed in the below tables:

Table 24: Week-1 detailed menu of food

Week day	Meal	Menu
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1	Breakfast	Tea, Cheese Butter, Jam, Honey Cream
		Omlete Gharch
		Shir Berenj
	Lunch	Khoresh Gheimeh
		Cheloo Kabab Koobideh
	Dinner	Pitza Goosht o Gharch
		Meigoo Pofaki
	Post Dinner	Pitza Goosht o Gharch
2	Breakfast	Tea, Cheese Butter, Jam, Honey Cream
		Tokhme Morghe Abpez
		Sib Zamini Tanouri
	Lunch	Khoresh Ghormeh Sabzi
		Chelo Jooje Kabab
	Dinner	Ketf o Bal Kabab
		Pasta Pene
	Post Dinner	Cheese Burger (handmade)
3	Breakfast	Tea, Cheese Butter, Jam, Honey Cream
		Ashe Shole Ghalamkar
		Corn Flex
	Lunch	Khoresh Kadoo
		Zereshk Polo Morgh
	Dinner	Morgh Kentaki
		Chenjeh Kabab
	Post Dinner	Morgh Kentaki
4	Breakfast	Tea, Cheese Butter, Jam, Honey Cream
		Shir Berenj
		Fereni
	Lunch	Khoresh Gheime Bademjan
		Chelo Kabab Barg
	Dinner	Kabab Roomi
		Hamberger (dast saz)
	Post Dinner	Kabab Roomi
5	Breakfast	Tea, Cheese Butter, Jam, Honey Cream
		Halim
		Sib Zamini Tanouri
	Lunch	Khoresh Bamieh
		Mahi Shekampor
	Dinner	Pitza Makhsoos
		Khorake Morgh ya Sabzijat
	Post Dinner	Pitza Makhsoos

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Other



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6	Breakfast	Tea, Cheese, Butter, Jam, Honey, Cream
		Omlete Felfel Sabz va Sib zamini
		Tokhme Morghe Abpaz
	Lunch	Baghali Polo Morgh
7	Dinner	Chelo Kabab Soltani
		Tas Kabab Goosht
	Dinner	Bareh Kabab
	Post Dinner	Khorak Shenitsel Morgh
	Breakfast	Tea, Cheese, Butter, Jam, Honey, Cream
		Ashe Shole Ghalamkar
		Pan Cake
	Lunch	Chelo Goosht
		Chelo Jooje ba Ostokhan
	Dinner	Kabab Shami
		Khorake Kashk va Bademjan
	Post Dinner	Kabab Shami

Table 25: Week-2 detailed menu of food

Week day	Meal	Menu
1	Breakfast	Tea, Cheese Butter, Jam, Honey Cream
		Omlete Gharch
		Shir Berenj
	Lunch	Khoresh Ghormeh Sabzi
		Chelo Goosht
2	Dinner	Morghe Sokhari+Dorchin
		Esteike Goosht
	Post Dinner	Jooje Kabab ba Ostokhan
3	Breakfast	Tea, Cheese Butter, Jam, Honey Cream
		Adasi
		Tokhme Morghe Abpaz
	Lunch	Khoresh Gheimeh
		Chelo Kabab Negindar
	Dinner	Khorake Jooje Momtaz
		Royal Burger (handmade)
	Post Dinner	Pitza Roastbeaf
	Lunch	Tea, Cheese Butter, Jam, Honey Cream
		Ashe Shole Ghalamkar
		Corn Flex

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	Dinner	Chenje Kabab Beaf Estroganof
	Post Dinner	Khorake Goje Bademjan
4	Breakfast	Tea, Cheese, Butter, Jam, Honey Cream Shir Berenj Ashe Shole Ghamakar
		Khoresh Karafs Chelo Kabab Bonab
	Dinner	Meigoo Sokhari Morghe Shekampor
		Morghe Shekampor
	Breakfast	Tea, Cheese Butter, Jam, Honey Cream Halim Omplete
		Khoresh Aloo Bareh tooferi
		Mahi Kababi Abgoosht
5	Post Dinner	Mahi Kababi
	Breakfast	Tea, Cheese, Butter, Jam, Honey, Cream Omlete Felfel Sabz va Sib zamini Pan Cake
		Mahi Shekampor va sauce Tahchin Goosht
	Dinner	Falafel Pitza Roastbeaf
		Royal Burger (handmade)
6	Breakfast	Tea, Cheese, Butter, Jam, Honey, Cream Ashe Shole Ghalamkar Tokhme Morghe Abpaz
		Chelo Kabab Barg Khoresh Morgh va Aloo
	Dinner	Khorak Esteike Morgh Jooje Chini
		Jooje Kabab ba Ostokhan
	Post Dinner	
7	Breakfast	
	Lunch	
	Dinner	
	Post Dinner	

Note 1: Week-3 detailed menu of food shall be same as week-1 and Week-4 detailed menu of food shall be same as week-2

Note 2: Seasonal fruits and vegetables, different type of beverages, dessert and salad shall be served in every lunch and dinner meals.

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Note 3: Supply of kitchen equipment, foodstuffs, preparing food, cooking, serving and distributing daily meals shall be the sole responsibility of Contractor.

9. Security

Company will provide and ensure the working area security and will provide the Contractor with the security rules and regulations however, Contractor shall be responsible for safety and security of Contractor's camps and any Contractor belongings.

Contractor shall obey and be fully aligned with the security rules and regulations and shall fully cooperate with security team.

10. Training

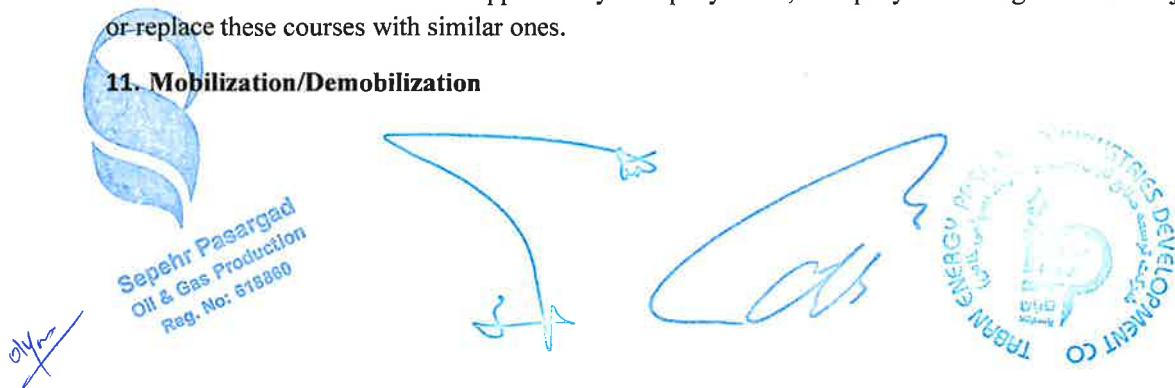
The Contractor shall provide training for Company Personnel as below table:

Table 26: Training Courses Requirements

Item	Title	Location	Man-Day
1.	Maintenance Planning & Work Control in the Oil & Gas (5 days)	Tehran	50
2.	Instrumentation Calibration Course (5 days)	Khuzestan	50
3.	Radiographic and Penetrant Testing Techniques (5 days)	Khuzestan	50
4.	MV & LV Switchgear Operation and Maintenance (5 days)	Khuzestan	50
5.	Valve Maintenance and Repair (5 days)	Khuzestan	50
6.	Electrical Maintenance Course (5 days)	Khuzestan	50
7.	Pump Maintenance Workshop Course (4 Days)	Khuzestan	60
8.	Compressors Maintenance Course (4 Days)	Khuzestan	60
9.	Process Safety Management Course (4 Days)	Khuzestan	100
10.	HAZMAT Course (3 Days)	Khuzestan	15
11.	Layer of Protection Course (2 Days)	Khuzestan	30
12.	AGT Course (1 Day)	Khuzestan	10
13.	Surface Facility Operation and Trouble-Shooting (5 Days)	Khuzestan	100
14.	Risk Base Inspection Course (RBI) (5 Days)	Tehran	100

The detail of each course shall be approved by Company. Also, Company has the right to make adjustment or replace these courses with similar ones.

11. Mobilization/Demobilization



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Mobilization shall include all necessary activities involved in mobilizing Contractor's Personnel, equipment, and materials to Contractor site service camp, provision of Camp and offices (according to Section 7 Appendix 1- Scope of Work) at the maximum 60 Days after the Commencement Date.

Demobilization shall include all necessary activities involved in demobilizing Contractor's Personnel, equipment, materials, camp and offices from Contractor site service camp at the maximum 15 Days after the end of the Contract period which will be declared via an official letter.

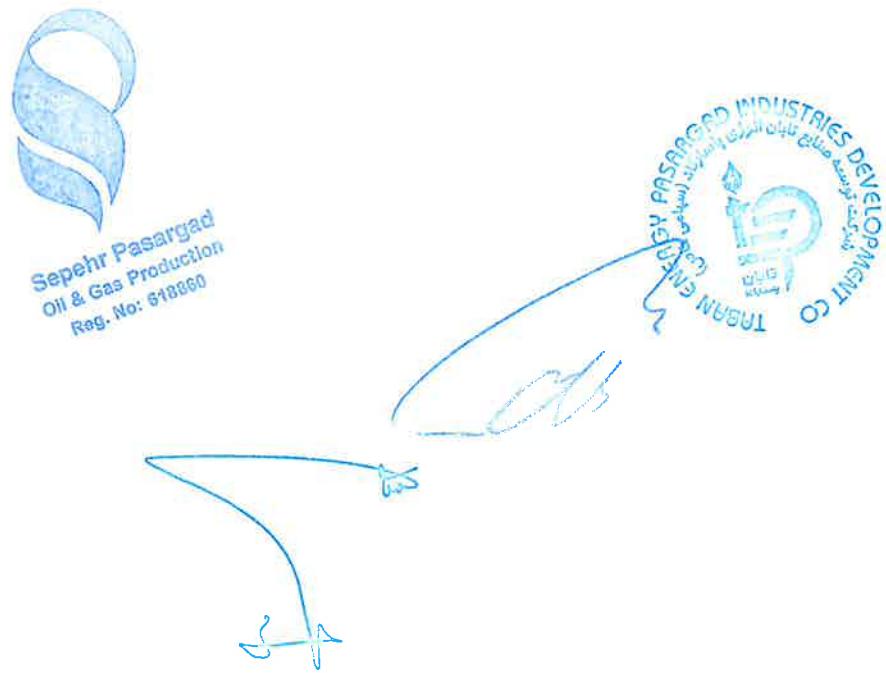
The maximum period of the Mobilization shall be completed within 60 Days after the Commencement Date. Moreover, the hand-over at the beginning of the Contract will be issued from 2 (Two) weeks before the Commencement Date which is defined as the preparation period for the Contractor. The expenditures and costs of the hand-over at the beginning of the Contract (If any) shall be considered in the Mobilization Costs. All related cost shall be covered at the Mobilization/Demobilization lump sum cost.

Note: In case of withdrawal from the supply or failure to provide 10 Connex to the Company per the agreed terms and features, the total Mobilization costs will not be paid to the Contractor.

12. Temporary Hand-over to Company

At the end of Contract, Contractor shall take all required actions to handover facilities and works to Company within 2 (Two) Weeks before end date of this Contract.

All the available data, certificates, technical manuals and handbook, facilities installation guides, reports and HSE documents shall be delivered to Company.

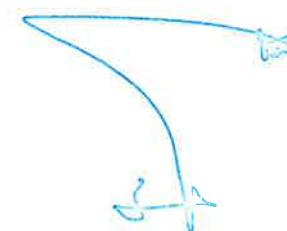


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**Annex-1 Attached to Appendix 1: Facility Maintenance
Task List and Guide Line**



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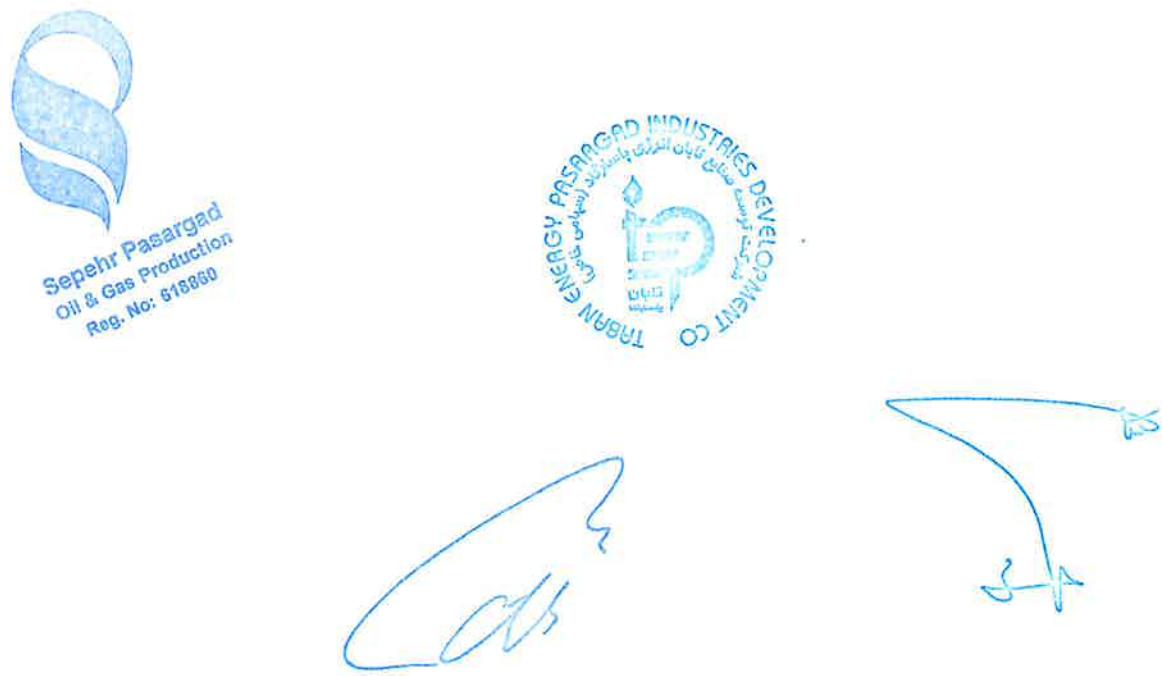

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Table 1: Diesel Power Generator (250 Working Hours)

Discipline: Mechanical	
#	Verify the following points:
1	Get work permit.
2	Record of the oil level before change.
3	Drain the oil.
4	Charge the new oil according to the used oil.
5	Record of the oil level after change.
6	Record of the oil pressure.
7	Record of the oil temperature.
8	Record of the water temperature.
9	Clean away dust from the paper cartridge and dust chamber of the air cleaner.
10	Check the valve clearances and make adjustments if necessary.
11	Check the fuel delivery advance angle. Readjust it if necessary.
12	Check the seat lines of valves. Remlap valves and readjust valve clearances if necessary.
13	Check the nozzle opening pressure and spray pattern. Readjust the injection. Pressure
14	Check the tightening torque of main bearing bolts and connecting rod bolts.
15	Check the leakage from the weep hole of the water pump. Replace the water seal if the leaking rate is too high.
16	Check radiator door spring
17	Visual inspection of belts.
18	Visual inspection of the air filter housing.
19	Clear the silencer of carbon deposits.
20	Error message panel registration.
21	Check all cable connections in the electric system. General cleaning of the engine and generator body and tighten the connections if dark burned spots are found.
22	If there is a leak, a repair Work order should be issued.
23	Get work acceptance.
24	Close The Permit.



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Table 2: Diesel Power Generator (500 Working Hours)

Discipline: Mechanical	
#	Verify the following points:
1	Get work permit.
2	Clean away dust from the paper cartridge and dust chamber of the air cleaner.
3	Check the valve clearances and make adjustments if necessary.
4	Record of the oil level before change.
5	Drain the oil.
6	Charge the new oil according to the used oil.
7	Record of the oil level after change.
8	Record of the oil pressure.
9	Record of the oil temperature.
10	Record of the water temperature.
11	Replace oil filter cartridge.
12	Replace fuel filter cartridge.
13	Replace air filter cartridge if necessary.
14	All filter sealing O-rings should be replaced.
15	Check radiator door spring
16	Clear the cooling system of scale.
17	Clean the fuel tank and fuel pipeline.
18	Check the fuel delivery advance angle. Readjust it if necessary.
19	Check the seat lines of valves. Remlap valves and readjust valve clearances if necessary.
20	Check the nozzle opening pressure and spray pattern. Readjust the injection. Pressure
21	Check the tightening torque of main bearing bolts and connecting rod bolts.
22	Check the leakage from the weep hole of the water pump. Replace the water seal if the leaking rate is too high.
23	Clear the silencer of carbon deposits.
24	Error message panel registration.
25	Check all cable connections in the electric system. General cleaning of the engine and generator body and tighten the connections if dark burned spots are found.
26	Checking and recording of equipment vibrations and unusual sounds
27	Check for technical conditions and performance of the engine to see if it needs some repairing. Dismount and inspect relevant parts. Clear away carbon deposits from cylinder head, piston, piston rings and cylinder liner. Check to see if the piston rings, cylinder liner, crank pin bearing or main journal bearing are subject to premature wearing
28	If there is a leak, a repair Work order should be issued.



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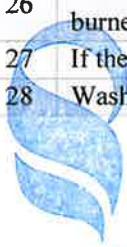
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|----|----------------------|
| 29 | Get work acceptance. |
| 30 | Close The Permit. |

Table 3: Diesel Power Generator (1500 Working Hours)

Discipline: Mechanical	
#	Get work permit.
1	Record of the oil level before change.
2	Drain the oil.
3	Charge the new oil according to the used oil.
4	Record of the oil level after change.
5	Record of the oil pressure.
6	Record of the oil temperature.
7	Record of the water temperature.
8	Replace oil filter cartridge.
9	Replace fuel filter cartridge.
10	Replace air filter cartridge.
11	Visual inspection of the air filter housing.
12	Open and clean the fuel pump strainer.
13	All filter sealing O-rings should be replaced.
14	Check radiator door spring
15	Clean away dust from the paper cartridge and dust chamber of the air cleaner.
16	Check the valve clearances and make adjustments if necessary.
17	Clean the injector needle.
18	Visual inspection of belts.
19	Checking and maintaining the internal components of the generator like Avar,
20	Check and cleaning Turbo Charger and rectify probable defects.
21	Cleaning of control parts like DSL,
22	Clear the silencer of carbon deposits.
23	Error message panel registration.
24	Check all cable connections in the electric system. General cleaning of the engine and generator body and tighten the connections if dark burned spots are found.
25	Checking and recording of equipment vibrations and unusual sounds
26	Check all cable connections in the electric system. Clean and tighten the connections if dark burned spots are found.
27	If there is a leak, a repair Work order should be issued.
28	Wash Radiator



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|----|----------------------|
| 29 | Get work acceptance. |
| 30 | Close The Permit. |
| 31 | Get work permit. |

Table 4: Diesel Power Generator (8000 Working Hours) Over Haul

Discipline: Mechanical	
#	Get work permit.
1	Battery status check.
2	Clean / Inspect Engine ground.
3	Record of the oil level before change.
4	Change Engine Oil.
5	Record of the oil level after change.
6	Record of the oil pressure.
7	Record of the oil temperature.
8	Record of the water temperature.
9	Replace oil filter cartridge.
10	Replace fuel filter cartridge.
11	Replace air filter cartridge.
12	Open and clean the fuel pump strainer.
13	Inspect Replace Hoses and Clamps
14	Visual inspection of the air filter housing is performed. Replace if necessary.
15	Tighten the motor handle and all bolts and nuts that are exposed to vibration.
16	All hoses and related parts should be checked and replaced if necessary.
17	Open Engine for rectify probable defects such as ring, piston, injectors, ...
18	Belt Changing.
19	Check and cleaning Turbo Charger and rectify probable defects.
20	Fuel pump should be open and check to rectify probable defects.
21	Oil pump should be open and check rectify probable defects.
22	Change O-ring & Gasket
23	Check the coupling and the replace rubber.
24	Check whole package for any deterioration and abnormal condition
25	Clean Replace Engine air cleaner element (dual element)
26	Check Replace Sensor Radiator Coolant, Quality and Status
27	Wash Radiator and Cylinder
28	Get work acceptance.



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- | | |
|----|-------------------|
| 29 | Close The Permit. |
| 30 | Get work permit. |

Table 5: Emergency Shutdown Valves (6 month)

Discipline: Mechanical

- | | |
|----|---|
| # | Get work permit. |
| 1 | Perform visual check. |
| 2 | Perform greasing of the valve. |
| 3 | Change actuator related Packing and O-rings if required. |
| 4 | The body of the equipment should be checked for rust and corrosion. |
| 5 | Check the valve for proper operation. |
| 6 | Tightening the valve with a wrench |
| 7 | General cleaning. |
| 8 | In case of failure, a repair work order must be issued. |
| 9 | Get work acceptance |
| 10 | Close The Permit. |
| 11 | Get work permit. |

Table 6: Chemical Injection package (6 month)

Discipline: Mechanical

- | | |
|----|---|
| # | Verify the following points: |
| 1 | Get work permit. |
| 2 | Drain the oil. |
| 3 | Clean the gearbox compartment. |
| 4 | Change the hydraulic oil and gear box oil of injection pumps. (Oil level record before drain) |
| 5 | Check and record the noise and vibration operation. |
| 6 | The filter should be opened and cleaned before the pump |
| 7 | Check the pump function and rectify the probable defects (Checking and recording the temperature of the equipment (bearings), Investigation of vibration and unconventional sounds, check inlet and outlet pressure, Checking the Vibration Graph, Pump output volume.) |
| 8 | Check and record oil level after refill-Trace lubrication oil leak-The extent of contamination of the oil. |
| 9 | Clean the one-way ball valves. |
| 10 | The performance of the pump flow rate regulator should be controlled and adjusted |
| 11 | The measuring pot must be cleaned. |
| 12 | Check hydraulic fluid level in spacer - if incorrect-Trace hydraulic fluid leak |
| 13 | Check the Pressure of Pulsation Dampers in Pumps Discharge line and adjust by charging nitrogen. |



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- 14 The equipment operating conditions and rectify defects.
- 15 Checking the coupling of the gearbox.
- 16 Cleaning the package by water and rag.
- 17 Operated valves.
- 18 Tightening all screws and all connections.
- 19 The body of the equipment should be checked for rust and corrosion.
- 20 Cleaning the package skid, pumps, tank and piping with water Jet
- 21 If there is a leak, a repair Work order should be issued.
- 22 Get work acceptance.
- 23 Close The Permit.

Table 7: Manual Valves (6 month)

Discipline: Mechanical	
#	Get work permit.
1	Perform a careful visual inspection, for any visible cracks in the valve parts (in particular the valve casing), defects or failure such as packing or bonnet leakage and stem condition.
2	In case of observing slight leakages from the gland packing, if possible, tighten the eye bolt nuts equally on both sides to stop the leakage; this sequence should be repeated a few more times
3	For valves with manual gearboxes, carefully remove the inspection cover from the gearbox and inspect that water or foreign material has not entered the gearbox.
4	The gearbox shall be filled with a premium anti-seize lubricant and the inspection cover must be reinstated back.
5	Turn the Hand Wheel half clockwise and counterclockwise, then return it to its original position.
6	Clean the stem & body of the valve from all dirt by applying metal brush.
7	Clean the stem & body surface of the valve from all dirt by rags.
8	Apply greasing sparingly to all grease nipple by actuating the hand pump 2-3 time.
9	Apply grease to all parts through pulling hard in a way that thin layer of grease will be on threads of stem.
10	Take Care Not to Over-grease.
11	The body of the equipment should be checked for rust and corrosion.
12	If there is a leak, a repair Work order should be issued.
13	Get work acceptance.
14	Close The Permit.
15	Get work permit.

Table 8: Stone Trap (1 month)

Discipline: Mechanical	
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#	Verify the following points:
1	Work permit required.
2	Disassemble stone trap connections.
3	Check and clean stone trap
4	Assemble stone trap connections
5	Get work acceptance.
6	Close The Permit.

Table 9: Cluster Export Pump (6 month)

Discipline: Mechanical
Verify the following points:
1 Work permit required.
2 Checking and recording the inlet (Suction) and outlet (Discharge) pressure of the equipment.
3 Checking and recording the temperature of the equipment (bearings)
4 Check and record oil level. (Change or refill if necessary)
5 Check for potential leaks
6 Checking and recording of equipment vibrations and unusual sounds, vibrometer, and vibration graph analysis.
7 All bolts on the main base and pump must be tightened.
8 Ensure that the pump's air and drain valves are functioning properly.
9 If the deviation exceeds the allowable limit on the chart, perform steps 1 through 6.
10 1- Open the bearing housing to inspect for any scratches and dirt
11 2-Bearing housing should be cleaned carefully
12 3-After cleaning and checking the health of the bearing, replace the bearing if necessary
13 4-If there is a leak in the mechanical seal, disassemble and fix it
14 5-When the coupling is opened, check the permissible vertical slack of the end of the shaft in the sealing part
15 6-Equipment the element
16 Wrenching of all connections such as pump base and electric motor
17 Wrenching of couplings and coverings of the bicolor
18 Checking and aligning the equipment if needed.
19 Check and examine the body of the equipment in terms of rust and corrosion
20 Clean the equipment and work environment.
21 Get work acceptance.
22 Close The Permit.



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Table 10: Cluster Export Pump (24 month)

Discipline: Mechanical

#	Verify the following points:
1	Work permit required.
2	The input and output lines of the equipment should be isolated and opened.
3	The equipment must be opened and taken to the workshop.
4	Radial and terrace lagging should be checked and recorded.
5	Dismantle the equipment.
6	Measuring parts must be serviced and cleaned.
7	If the parts are defective, replace and install a new part.
8	All parts related to OILSEAL and gaskets should be replaced.
9	The equipment must be reassembled in compliance with the defined standard sizes.
10	The equipment should be moved to the site for installation.
11	First Alignment of the equipment should be done.
12	The input and output lines of the equipment should be closed.
13	Oil charging should be done.
14	The final alignment of the equipment should be done.
15	The equipment should be coupled with an electric motor.
16	Clean the equipment and work environment.
17	Recording the inlet (Suction) and outlet (Discharge) pressure of the equipment.
18	Recording the temperature of the equipment (bearings)
19	Record oil level.
20	Recording of equipment vibrations and unusual sounds.
21	The equipment should be started and delivered to the operator.
22	Get work acceptance.
23	Close the permit and check it with records.

Table 11: Cluster Air Compressor (3 month)

Discipline: Mechanical

#	Verify the following points:
1	Work permit required.
2	Change out the lubricant
3	Check and record oil level. (Change or refill if necessary)
4	Recording the temperature of the equipment.
5	Replace air filter cartridge.
6	Clean the moisture drain valve.



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- | | |
|----|---|
| 7 | Check the air return pipes. |
| 8 | Check the pressure gauge and replace it if damaged. |
| 9 | Inspect the lubricant filter, and change the oil filter if applicable |
| 10 | Check and clean the pressure relief valves. |
| 11 | Check belts and change if necessary |
| 12 | Check and tighten all bolts |
| 13 | Check connections for leaks |
| 14 | Clean the equipment and work environment. |
| 15 | Get work acceptance. |
| 16 | Close The Permit. |

Table 12: Cluster Air Compressor (12 month)

Discipline: Mechanical	
#	Verify the following points:
1	Work permit required.
2	Check valves for signs of leaks or carbon prints.
3	Clean the crankcase
4	Replacement of all O-rings and gaskets
5	Aligning the compressor using shims
6	Motor and compressor financial alignment
7	Replacement of engine bearings if needed
8	Check and inspect the outer surface of the equipment for corrosion and rust
9	Oil change. (Record oil level before charge)
10	Oil change. (Record oil level after charge)
11	Replace inlet air filter cartridge.
12	Check the pressure gauge and replace it if damaged.
13	Replacement of all oil and air filters
14	Clean the strainer screen of the crankcase.
15	Clean the equipment and work environment.
16	Get work acceptance.
17	Close The Permit.

Table 13: Pressure Safety Valve (24month)

Discipline: Mechanical	
#	Work permit required.
1	Work permit required.
2	Checking for any fluid leakage from the connection point of the equipment to the process lines.

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- | | |
|----|--|
| 3 | Flange Face Inspection |
| 4 | Measurement and Recording: Seat and Plug Size. |
| 5 | Perform Bubble Test |
| 6 | Perform POP Action |
| 7 | The final test of PSV |
| 8 | Clean the equipment and work environment. |
| 9 | Get work acceptance. |
| 10 | Close The Permit. |

Table 14: Strainer (3 Monthly)

Discipline: Mechanical

- | | |
|---|---|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Opening the manhole strainer door |
| 3 | Remove the equipment basket for washing |
| 4 | Wash the basket and reinstall |
| 5 | Close the manhole door |
| 6 | Clean the equipment and work environment. |
| 7 | Get work acceptance. |
| 8 | Close The Permit. |

Table 15: Air Dryer (12 month)

Discipline: Mechanical

- | | |
|---|---|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check desiccant of dryers and refill if necessary. |
| 3 | Checking and replacing the dehumidifier filter |
| 4 | Fixing leaks from connections |
| 5 | Checking the discharge path, inlet, and outlet valves |
| 6 | Check and inspect the outer surface of the equipment for corrosion and rust |
| 7 | Clean the equipment and work environment. |
| 8 | Get work acceptance. |
| 9 | Close The Permit. |

Table 16: Chain Block (3 month)

Discipline: Mechanical

- | | |
|---|------------------------------|
| # | Verify the following points: |
|---|------------------------------|



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- | | |
|----|--|
| 1 | Work permit required. |
| 2 | Visually check that chains are undamaged |
| 3 | Check the chain block operation |
| 4 | Greasing the chains |
| 5 | Clean chain |
| 6 | Check trolley of chain |
| 7 | Check the paint of hook Get the work acceptance. |
| 8 | Clean the equipment and work environment. |
| 9 | Get work acceptance. |
| 10 | Close The Permit. |

Table 17: Production Separator (24month)

Discipline: Mechanical

- | | |
|----|--|
| # | Verify the following points: |
| 1 | Get work permit. |
| 2 | Evacuation of the equipment by means of an evacuation line |
| 3 | Assist Instruments Technician to extract instruments |
| 4 | Isolate the equipment by blind flanges. |
| 5 | Steam injection into the equipment |
| 6 | Open manholes |
| 7 | Equipment ventilation by positive pressure fan |
| 8 | Internal cleaning. |
| 9 | Internal inspection for corrosion |
| 10 | Provide correct ventilation |
| 11 | Verify demister pads, clean or replace, if needed. |
| 12 | Verify tightness of valves and restore. If needed |
| 13 | Hydrostatic test |
| 14 | Drying the inside of equipment using an air compressor |
| 15 | Replacing all gaskets. |
| 16 | Re-install all disassembled parts. |
| 17 | Close manhole |
| 18 | Empty and purge(N2) the equipment. |
| 19 | Cooperation whit instruments Technician. |
| 20 | Install new fittings and assemble bridles. |
| 21 | Lubricate sifting and re-install. Inspect foundation and supports installation, damages or flaking.
Repair if needed. |
| 22 | Working test. |

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- 23 Get work acceptance.
- 24 Close The Permit.

Table 18: Pig Launcher and Receiver (12 month)

Discipline: Mechanical

- | | |
|---|---|
| # | Verify the following points: |
| 1 | Get work permit. |
| 2 | Cleaning the door of pig launcher/receiver trap and Special gasket seal and seal face area for any damage (change the gasket if required) |
| 3 | injection grease in all of grease points according vendor document recommended |
| 4 | Cleaning all nut and bolt for preservation and coating with general multi-purpose grease |
| 5 | Check pig signaler for any damage |
| 6 | Check and all related valves and rectify probable problems. |
| 7 | Get work acceptance. |
| 8 | Close The Permit. |

Table 19: Service Water and Pump (6 month)

Discipline: Mechanical

- | | |
|----|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check performance of pump |
| 3 | Check all paint or protective coatings |
| 4 | To Clean the Pump body and Skid of Pump |
| 5 | The packings should be replaced. |
| 6 | The rubber between the coupling should be replaced. |
| 7 | injection grease in all of grease points according vendor document recommended |
| 8 | Clean the equipment and work environment. |
| 9 | Get work acceptance. |
| 10 | Close The Permit. |

Table 20: Nardi Compressor (250 Working Hours)

Discipline: Electrical

- | | |
|---|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Record and replace oil of compressor and engine. |
| 3 | Check the performance of the filling hoses |
| 4 | Check the performance of the cooling hoses |



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|----|--|
| 5 | Check instruments (zero on the gauge) |
| 6 | Check and tighten all nut & bolts. |
| 7 | Check belts and change if necessary. |
| 8 | Filter cartridge activated carbon/molecular sieve (PAC FILTER 2) |
| 9 | Check O-Rings (Filters and cartridge) |
| 10 | Replace cartridge of intake filter. |
| 11 | Inspection of body and base of filter activated carbon |
| 12 | Clean the equipment and work environment. |
| 13 | Get work acceptance. |
| 14 | Close The Permit. |

Table 21: Nardi Compressor (500 Working Hours)

Discipline: Electrical	
#	Verify the following points:
1	Work permit required.
2	Inspection and replacement separator
3	Check the battery charger.
4	Record and replace oil of compressor and engine.
5	Check setting of safety valve
6	Check to auto drain valve, if necessary, change setting.
7	Calibration safety valve.
8	Replace all filters and cartridge. (Air filter, Oil filter, Fuel filter)
9	Check belts and change if necessary.
10	Check all O-Rings and change if necessary.
11	Check and tighten all nut & bolts.
12	Clean the equipment and work environment.
13	Get work acceptance.
14	Close The Permit.

Table 22: Diesel and water pump (6 month)

Discipline: Electrical	
#	Verify the following points:
1	Work permit required.
2	Checking and recording the inlet (Suction) and outlet (Discharge) pressure of the equipment.
3	Checking and recording the temperature of the equipment (bearings)
4	Check and record oil level. (Change or refill if necessary)
5	Check for potential leaks

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6	Checking and recording of equipment vibrations and unusual sounds, vibrometer, and vibration graph analysis.
7	All bolts on the main base and pump must be tightened.
8	Ensure that the pump's air and drain valves are functioning properly.
9	If the deviation exceeds the allowable limit on the chart, perform steps 1 through 6.
10	Open the bearing housing to inspect for any scratches and dirt
11	Bearing housing should be cleaned carefully
12	After cleaning and checking the health of the bearing, replace the bearing if necessary
13	If there is a leak in the mechanical seal, disassemble and fix it
14	When the coupling is opened, check the permissible vertical slack of the end of the shaft in the sealing part
15	6-Equipment the element
16	Wrenching of all connections such as pump base and electric motor
17	Wrenching of couplings and coverings of the bicolor
18	Checking and aligning the equipment if needed.
19	Check and examine the body of the equipment in terms of rust and corrosion
20	Clean the equipment and work environment.
21	Get work acceptance.
22	Close The Permit.

Table 23: UPS (3 month)

Discipline: Electrical	
#	Verify the following points:
1	Get work permit.
2	Record input and output AC current.
3	Record input and output AC voltage.
4	Inspect the ventilation fan, Confirm the correct operation.
5	Test of switches, relays
6	Functional test of system.
7	The battery should be charged and discharged every 2 months.
8	Carry out a test discharge of the battery for the specified autonomy (Capacity Test)
9	Clean all batteries and the external and internal of panel with a vacuum cleaner.
10	Check, clean and tighten all connections.
11	Check and clean all exhaust components. Rectify if necessary.
12	Check and record the level batteries and restart if necessary. (Refill)
13	Record all batteries voltage individually and total.
14	Check cables and equipment right identification. Rectify if necessary.

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- | | |
|----|---|
| 15 | Check and record the UPS discharge percentage in 30 minutes. |
| 16 | Check and record the UPS charge percentage in 30 minutes. |
| 17 | Check, clean and greasing all terminals and greasing all connection of earthing system. |
| 18 | Check the continuity of earthing system. |
| 19 | Check painted and plated components for signs of damage or corrosion. |
| 20 | If there is a leak, a repair Work order should be issued. |
| 21 | Get work acceptance. |
| 22 | Close The Permit. |

Table 24: Electromotor Pump (Cluster) (6 month)

Discipline: Electrical	
#	Verify the following points:
1	Work permit required.
2	Check and record the temperature of the coil of the electric motor.
3	Record Insulation resistance measurement.
4	Checking the sound of the electric motor and the normality of the sound.
5	Checking and ensuring the operation of RTDs.
6	Checking the electro motor earth system.
7	Check and Record Electromotor vibration measurement.
8	Checking and ensuring the operation of the heater.
9	Review of LCS and electromotor amp.
10	Inspecting the threading of connections and wire ends.
11	Checking the feeder corresponding to the device.
12	Visit the cooling fan.
13	Rotor shaft cracking test.
14	Measurement and recording of ohmic resistance of phases.
15	Visiting the electric motor cover.
16	Check painted and plated components for signs of damage or corrosion.
17	If there is a leak, a repair Work order should be issued.
18	Get work acceptance.
19	Close The Permit.

Table 25: Panel & cabin (Junction Box, LV Panel, Adaptor) (6 month)

Discipline: Electrical	
#	Verify the following points:
1	Work permit required.

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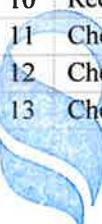
2	To confirm There are no visual signs of burning, overheating or damage and no burning smell at the cabin.
3	To confirm local panel has been installed in safe condition and the cable connections are tighten and earthed.
4	To confirm all electrical connection on fuse boxes are tighten and has been checked for looseness.
5	To confirm that cabin has been earthed and earth connections are tightened.
6	To confirm the cable root has been checked. not is on the way, no sign of damaged and cable size is correct and measure the current
7	To confirm the test button(s) on these RCCB(s) have been operated during the course of this inspection and confirm they are operating properly.
8	Check the status of Fans & Filter (If available)
9	Check the status of display (If available)
10	To confirm all sockets/switches on the cabin are properly working.
11	To confirm there are no signs of modification/ temporary connections to the electrical installation.
12	To confirm all electrical boxes are cleaned.
13	To confirm All fittings [light fittings/sockets /switches/outlets etc.] on the cabin are tightly secured in their back box, with all screws present.
14	In case of failure, a repair order must be issued.
15	Get work acceptance.
16	Close The Permit.

Table 26: Motor Diesel Power Generator (250 & 500 & 1500 & 8000 Working Hours)

Discipline: Electrical

#	Verify the following points:
1	Work permit required.
2	Check batteries and battery charger.
3	Record the running hour.
4	Record all batteries voltage individually and total.
5	Record battery charger voltage.
6	Checking and cleaning deep sea.
7	Record the engine speed (RPM)
8	Record the oil pressure.
9	Record the 3-phase voltage
10	Record the 1-phase voltage
11	Check the status of emergency key.
12	Check the power cables, control wirings and cable glands.
13	Checking and cleaning local breaker and externally of alternative.

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|----|---|
| 14 | Percentage of UPS equipment power charge reduction during one hour of diesel generator outage |
| 15 | If there is a leak, a repair Work order should be issued. |
| 16 | Get work acceptance. |
| 17 | Close The Permit. |

Table 27: Trans Rectifier of Cathodic Protection system (6 month)

Discipline: Electrical

- | | |
|----|---|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Inspect the equipment generally. |
| 3 | Clean and tidy up the equipment. |
| 4 | Check for signs of overheating. |
| 5 | Confirm that all HV connections including the bus duct are secure. |
| 6 | Confirm that all LV connections are secure. |
| 7 | Carry out IR test of panel and feeder cable. |
| 8 | Carry out IR test of primary winding and bus duct to earth. |
| 9 | Carry out IR test of secondary winding and bus duct to earth. |
| 10 | Measure incoming and control voltages. |
| 11 | Check incoming supply circuit breakers interlock. |
| 12 | Confirm that all of the metering devices are working properly. |
| 13 | Test of earthing installation integrity. |
| 14 | Add to the oil in the case the oil level is lower than the permitted range. |
| 15 | Measure the oil temperature. |
| 16 | Replace the silica gel in the case that it turned into pink more than half. |
| 17 | Function test of the earth leakage unit. Record current and time, if any. |
| 18 | Function test of internal transducer, timers, power supply relay, under voltage relay, regulator controller, |
| 19 | To confirm the function of the rectifier board is acceptable and all of the internal ports are working properly and no damage in fuses and other ports. |
| 20 | Confirm that all of the tagging and labeling are in the good condition. |
| 21 | If there is a leak, a repair Work order should be issued. |
| 22 | Get work acceptance. |
| 23 | Close The Permit. |

Table 28: Lighting Equipment & Lighting Panel (6 month)

Discipline: Electrical

- | | |
|---|------------------------------|
| # | Verify the following points: |
|---|------------------------------|



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|----|---|
| 1 | Work permit required. |
| 2 | Inspect fixture and pols for loose or damaged parts. |
| 3 | Connections for cleanliness and corrosion by inhibitor if necessary. |
| 4 | To confirm that cabin has been earthed and earth connections are tightened. |
| 5 | Operate lamp for function test rectify the problems |
| 6 | Inspect circuit for proper operation. Repair/replace as required |
| 7 | Replace failed indicator lights/bulbs. |
| 8 | Replace failed lights. |
| 9 | Clean exterior with dry cloth. |
| 10 | Get work acceptance. |
| 11 | Close The Permit. |

Table 29: Earthing System (12 month)

Discipline: Electrical

- | | |
|----|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Perform General Inspection. |
| 3 | Clean And Tidy Up All Connections. |
| 4 | Check And Clean All of the Earth Pits/ Concrete Body and Doors. Repair If There Are Damage Or Loos Connection |
| 5 | Check and Record Earthing Installation Integrity. |
| 6 | Record ohm value. |
| 7 | Remove all grease from the connection points with a soft piece of cloth or tissue, re-grease the lugs and bolts and screw threads slightly (preferably with a silicon grease) |
| 8 | Check, tight, test and repair all of connection point, and tighten and fasten them with a final torque according the torque table and bolt type. |
| 9 | Check tight and repair the cable and earth points/bus bars/pits identification are correct. |
| 10 | Paint the pit door id required. |
| 11 | Check and repair, tag number /labeling/marking is properly are correct and also place in position properly |
| 12 | Check And test resistance and continuity between all of the earth pits/earth loop and earth pits/earth loop and earth connection point on devices or equipment's/ with open and test each connection point and repair to get good result |



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13	Check And Test Resistance and Continuity between All of the Earth Loop and Earth Bars and Bus bars/Equipment's or Panels with Open and Test Each Connection Point and Repair to Get the Good Result According Standard
14	Check And Test Resistance and Continuity Between Lightning System and Earth Loop with Open and Test Each Connection Point and Repair to Get the Good Result According Standard.
15	Check the ISE of the instrument panels earthing to be segregated from electrical earth PE all wiring should check from panel to bus bar result of resistance check should be Register in PMR Check list.
16	Rectify and defect and problem during earthing system inspection.
17	In case of failure, a repair order must be issued.
18	Get work acceptance.
19	Close The Permit.

Table 30: Capacitor Bank & Bass bar (12 month)

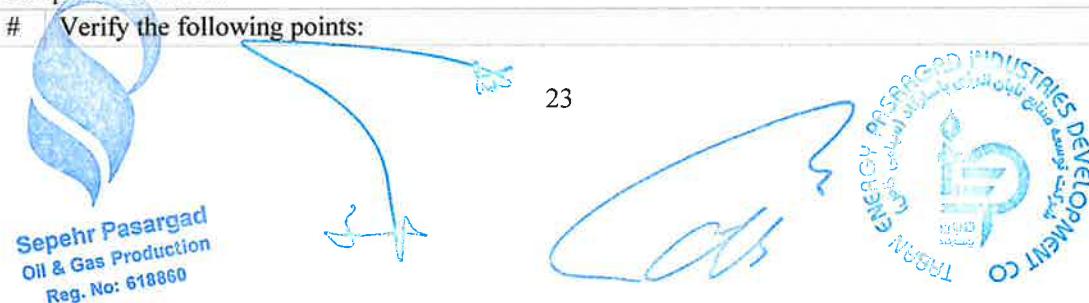
Discipline: Electrical

#	Verify the following points:
1	Work permit required.
2	Testing and checking (Capacitor Bank)
3	Check the connections inside the panel. (Capacitor Bank)
4	Test the continuity of earthing system. (Capacitor Bank)
5	Screwing and cleaning electrical terminals & Power and command. (Capacitor Bank)
6	Checking the lights and push buttons on the panel (Capacitor Bank)
7	Inspect and apply grease to terminals if required (Capacitor Bank)
8	Checking fuses, relays, contactors and... (Capacitor Bank)
9	Record the voltage reading of equipment. (Capacitor Bank)
10	Record the Ampere reading of equipment. (Capacitor Bank)
11	Cleaning the board with a blower. (Capacitor Bank)
12	Cleaning all bass bar with industrial alcohol (Capacitor Bank)
13	Check and clean all exhaust component of equipment in substation (Capacitor Bank)
14	In case of failure, a repair order must be issued.
15	Get Work Acceptance
16	Close The Permit.

Table 31: LOW VOLTAGE TRANSFORMATOR (6 month)

Discipline: Electrical

#	Verify the following points:
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|----|--|
| 1 | Work permit required. |
| 2 | The track of the rails should be checked |
| 3 | Check the area for any signs of oil leaks. |
| 4 | Check the color of the surface. |
| 5 | The name plate checked. |
| 6 | Check and record the oil level. |
| 7 | Check and Record temperature of oil and coils. |
| 8 | The dehumidifier filter should be checked (not blocking the breathing area/fracture and cracking/color of the filter). |
| 9 | Check the oil drain valve and the oil sampling valve. |
| 10 | The oil thermometer should be checked (presence or absence/defective/in circuit/adjustment). |
| 11 | Buckholts relay should be checked (presence or absence/defective/circuit/oil leakage). |
| 12 | Protective earth should be checked (continuity / strength of connections). |
| 13 | Bushings should be checked (cracks or broken insulation/oil leaks/cleaning). |
| 14 | The cables should be checked (cracking, wear, current leakage/strength of connections, corrosion, shaping/cleaning). |
| 15 | Gland cables should be checked (strength of connection/ presence or absence of shred). |
| 16 | Check the cable holding clamps (presence or absence/suitability/strength). |
| 17 | Cable holders should be checked (strength/alignment/healthy). |
| 18 | The spark plugs should be checked (presence or absence/setting of the plugs). |
| 19 | The tap changer should be checked (whether the rotation degree is healthy/oil leakage in the transformer). |
| 20 | Check the temperature (normal temperature should be checked with a thermometer). |
| 21 | Check the sound of the transformer (absence of abnormal sound). |
| 22 | Check the fire alarm system. |
| 23 | The fans should be checked (blades are healthy/absence of foreign objects between the blades). |
| 24 | Vibration should be checked (absence of abnormal vibration). |
| 25 | In case of failure, a repair order must be issued. |
| 26 | Get work acceptance. |
| 27 | Close The Permit. |

Table 32: LOW VOLTAGE TRANSFORMATOR (12 month)

Discipline: Electrical

- | | |
|---|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Visiting and testing the gas inside the Buchholz relay |
| 3 | Cleaning the oil level indicator glass |


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4	Protection circuit testing and connection cables and contacts and alarm and trip floats
5	Checking the display of signals sent from the transformer on the alarm window
6	Measurement of ohmic resistance and insulation of coils and cables
7	Tangent delta measurement
8	Measurement of ohmic resistance and conversion ratio
9	Checking the condition of the pressure relief valve diaphragm, trip command circuit, etc.
10	Visiting the nitrogen pressure of the tank, the absence of nitrogen leakage from the nitrogen pressure gauge, the degree of nitrogen purity
11	Oil bushing power factor test
12	Replacing all the taps in order to clean the contacts of the selector switch
13	Earth resistance test to correct the earth system (less than 10 ohms)
14	Check and calibrate oil thermometer and coil thermometer
15	Cleaning the surfaces of insulators and bushings
16	Tightening loose or loose connections and checking the condition of the wheel holders
17	Checking the sudden pressure relay
18	Lubricating the wheels (if necessary)
19	Wrenching cable connections and terminals
20	Cleaning Marshaling trans and feeding feeder
21	Checking the electric and mechanical interlock of the feeder
22	Checking the ground connection of the feeder
23	Visiting the signal, warning and trip lights inside the feeder
24	Inspection of feeder breaker microswitches
25	Check the uncertainty and looseness of the steering wires and communication cables
26	Degreasing and visiting the platinum and feeder contactor.
27	Cleaning and service of filters and fans or ventilation
28	Checking the status of breaker operation
29	In case of failure, a repair order must be issued.
30	Get work acceptance.
31	Close The Permit.

Table 33: Diesel and water pump panel (6 Month)

Discipline: Electrical

#	Verify the following points:
1	Work permit required.
2	To confirm There are no visual signs of burning, overheating or damage and no burning smell at the cabin.



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|----|--|
| 3 | To confirm local panel has been installed in safe condition and the cable connections are tighten and earthed. |
| 4 | To confirm all electrical connection on fuse boxes are tighten and has been checked for looseness. |
| 5 | To confirm that cabin has been earthed and earth connections are tightened. |
| 6 | To confirm the cable root has been checked. not is on the way, no sign of damaged and cable size is correct and measure the current |
| 7 | To confirm the test button(s) on these RCCB(s) have been operated during the course of this inspection and confirm they are operating properly. |
| 8 | Check the status of Fans & Filter (If available) |
| 9 | Check the status of display (If available) |
| 10 | To confirm all sockets/switches on the cabin are properly working. |
| 11 | To confirm there are no signs of modification/ temporary connections to the electrical installation. |
| 12 | To confirm all electrical boxes are cleaned. |
| 13 | To confirm All fittings [light fittings/sockets /switches/outlets etc.] on the cabin are tightly secured in their back box, with all screws present. |
| 14 | In case of failure, a repair order must be issued. |
| 15 | Get work acceptance. |
| 16 | Close The Permit. |

Table 34: MOV panel (6 Month)

Discipline: Electrical

- | | |
|----|---|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | To confirm There are no visual signs of burning, overheating or damage and no burning smell at the cabin. |
| 3 | To confirm local panel has been installed in safe condition and the cable connections are tighten and earthed. |
| 4 | To confirm all electrical connection on fuse boxes are tighten and has been checked for looseness. |
| 5 | To confirm that cabin has been earthed and earth connections are tightened. |
| 6 | To confirm the cable root has been checked. not is on the way, no sign of damaged and cable size is correct and measure the current |
| 7 | To confirm the test button(s) on these RCCB(s) have been operated during the course of this inspection and confirm they are operating properly. |
| 8 | Check the status of Fans & Filter (If available) |
| 9 | Check the status of display (If available) |
| 10 | To confirm all sockets/switches on the cabin are properly working. |
| 11 | To confirm there are no signs of modification/ temporary connections to the electrical installation. |


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|----|--|
| 12 | To confirm all electrical boxes are cleaned. |
| 13 | To confirm All fittings [light fittings/sockets /switches/outlets etc.] on the cabin are tightly secured in their back box, with all screws present. |
| 14 | In case of failure, a repair order must be issued. |
| 15 | Get work acceptance. |
| 16 | Close The Permit. |

Table 35: Battery (3 Month)

Discipline: Electrical

- | | |
|----|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Clean all batteries and the battery room. |
| 3 | Check, clean and tighten all connections. |
| 4 | Check and clean all exhaust components. Rectify if necessary. |
| 5 | Check and record the level batteries and restart if necessary. (Refill) |
| 6 | Record all batteries voltage individually and total |
| 7 | Check cables and equipment right identification. Rectify if necessary. |
| 8 | Check, clean and greasing all terminals. |
| 9 | Check the continuity of earthing system. |
| 10 | Carry out a test discharge of the battery for the specified autonomy (Capacity Test) |
| 11 | Get work acceptance. |
| 12 | Close The Permit. |

Table 36: Battery Charger (3 Month)

Discipline: Electrical

- | | |
|----|---|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Clean external and internal of panel with a vacuum cleaner. |
| 3 | Check and clean all electrical equipment. Rectify if necessary. |
| 4 | Check, clean and tighten all connection and bolts and screw. |
| 5 | Check functioning of pilot lamps and measuring instruments. Replace if necessary. |
| 6 | Check live parts screens and covers integrity. |
| 7 | Check cables insulation and components identification. |
| 8 | Visually check electrical connection for over heating or corrosion. Rectify if necessary. |
| 9 | Check and lubrication all mechanical moving parts. |
| 10 | Inspect painted and plated components for signs of corrosion or damage. Rectify if necessary. |
| 11 | Check the continuity of earthing system & measure the earthing resistance. |

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- | | |
|----|---|
| 12 | Check, clean and greasing all connection of earthing system |
| 13 | Get work acceptance. |
| 14 | Close The Permit. |

Table 37: Electromotor of Air Compressor (3 Month)

Discipline: Electrical

- | | |
|----|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check airways |
| 3 | Check Heat exchanger(heater) if existing |
| 4 | Record Bearing Temperature of Motor |
| 5 | Check operational noise and smooth running |
| 6 | Check the trench and cover of body for sign of corrosion or damaged. |
| 7 | Check and record rotational speed of motor |
| 8 | Check the input cable and cable gland and cable tray |
| 9 | Greasing bearings of motor if nipple exist |
| 10 | Clean inside junction box retightens screws |
| 11 | Check earthing system |
| 12 | Get work acceptance. |
| 13 | Close The Permit. |

Table 38: Electromotor of Air Compressor (12 month)

Discipline: Electrical

- | | |
|---|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Clean the cable gland and insulation of cable. |
| 3 | Record measuring data. |
| 4 | Check alignment and fixing of the coupling |
| 5 | Measure insulating resistance of stator coil |
| 6 | Check, clean and calibrate the LCS |
| 7 | Clean and lubricate and tighten all parts of circuit breaker panel in substation |
| 8 | Get work acceptance. |
| 9 | Close The Permit. |

Table 39: Rack (3 Month)

Discipline: Electrical

- | | |
|---|------------------------------|
| # | Verify the following points: |
|---|------------------------------|



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1	Work permit required.
2	The power supply to the panel should be disconnected.
3	Switch off the breaker.
4	Checking the earth panel.
5	Greasing of the Breaker joint
6	Greasing of the mechanical parts of the equipment
7	Screwing and cleaning electrical terminals
8	Checking the lights and push buttons on the panel.
9	Checking the condition of the earth
10	Checking the lights and push buttons on the panel
11	Record the voltage reading of equipment.
12	Cleaning inside the panel with a blower.
13	Inspection of panel microswitches
14	Remove the earth of Panel
15	Turn on the breaker
16	In case of failure, a repair work order must be issued.
17	Get work acceptance.
18	Close The Permit.

Table 40: LV Switchgear (6 month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Testing and checking (Capacitor Bank)
3	Check the connections inside the panel. (CELL & Capacitor Bank), if there is.
4	Test the continuity of earthing system. (CELL & Capacitor Bank), if there is.
5	Screwing and cleaning electrical terminals & Power and command. (CELL & Capacitor Bank), if there is.
6	Checking the lights and push buttons on the panel (CELL & Capacitor Bank), if there is.
7	Inspect and apply grease to terminals if required (CELL & Capacitor Bank), if there is.
8	Checking fuses, relays, contactors and... (CELL & Capacitor Bank), if there is.
9	Record the voltage reading of equipment. (CELL & Capacitor Bank), if there is.
10	Cleaning the board with a blower. (CELL & Capacitor Bank), if there is.
11	Cleaning all bass bar with industrial alcohol (CELL & Capacitor Bank), if there is.
12	Check and clean all exhaust component of equipment in substation (CELL & Capacitor Bank), if there is.
13	In case of failure, a repair work order must be issued.



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- 14 Get work acceptance.
- 15 Close The Permit.

Table 41: Differential Pressure Transmitter (6 month)

Discipline: Instrumentation

- | | |
|----|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check the tag of the device |
| 3 | Check the tag of the cable and check the connections of the device |
| 4 | Check the cable gland and shroud of the cable |
| 5 | Check the sealing of the device |
| 6 | Check the Earth connection |
| 7 | Check tube route and rectify in case of leakage. |
| 8 | General cleaning. |
| 9 | Checking the absence of fluid leakage from the connection point of the equipment to the process lines. |
| 10 | Checking the value shown on the equipment screen with the control room and adjacent local displays. |
| 11 | Equipment and work environment should be cleaned. |
| 12 | In case of failure, a repair order must be issued. |
| 13 | Get work acceptance from applicant. |
| 14 | Close The Permit. |

Table 42: Differential Pressure Transmitter (12 month)

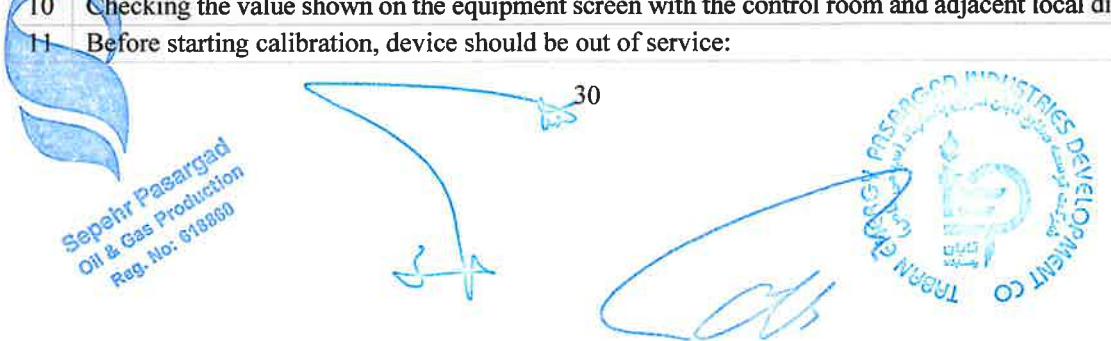
Discipline: Instrumentation

- | | |
|----|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check the tag of the device |
| 3 | Check the tag of the cable and check the connections of the device |
| 4 | Check the cable gland and shroud of the cable |
| 5 | Check the sealing of the device |
| 6 | Check the Earth connection |
| 7 | Check tube route and rectify in case of leakage. |
| 8 | General cleaning |
| 9 | Checking the absence of fluid leakage from the connection point of the equipment to the process lines. |
| 10 | Checking the value shown on the equipment screen with the control room and adjacent local displays. |
| 11 | Before starting calibration, device should be out of service: |

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	e.g.: In the first step (for PDT, FT) close the HIGH side of isolation Valve then open EQULIZE valve and after that close the LOW side of isolation Valve. Now device is ready to calibrate
12	"After finishing calibration, device should be in service: e.g.: In the first step (for PDT, FT) close drain valves then open the LOW side of isolation Valve then close EQULIZE valve and after that open the HIGH side of isolation Valve. Now device is ready to work."
13	Full Calibration.
14	For other Differential Pressure Transmitter, manufacturer's recommended procedure shall be used.
15	Equipment and work environment should be cleaned.
16	In case of failure, a repair order must be issued.
17	Get work acceptance from applicant.
18	Close The Permit.

Table 43: Flow Transmitter (6 month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Check the tag of the device
3	Check the tag of the cable and check the connections of the device
4	Check the cable gland and shroud of the cable
5	Check the sealing of the device
6	Check the Earth connection
7	Check tube route and rectify in case of leakage.
8	General cleaning
9	Checking the absence of fluid leakage from the connection point of the equipment to the process lines.
10	Checking the value shown on the equipment screen with the control room and adjacent local displays.
11	Before starting calibration, device should be out of service: e.g.: In the first step (for PDT, FT) close the HIGH side of isolation Valve then open EQULIZE valve and after that close the LOW side of isolation Valve. Now device is ready to calibrate.
12	After finishing calibration, device should be in service: e.g.: In the first step (for PDT, FT) close drain valves then open the LOW side of isolation Valve then close EQULIZE valve and after that open the HIGH side of isolation Valve. Now device is ready to work.
13	Full Calibration.



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|----|---|
| 14 | For other flow instrument such as "ultrasonic flow meters, turbine meters, PD meters, magnetic meters and etc." manufacturer's recommended procedure shall be used. |
| 15 | Equipment and work environment should be cleaned. |
| 16 | In case of failure, a repair order must be issued. |
| 17 | Get work acceptance from applicant. |
| 18 | Close The Permit. |

Table 44: Flow Transmitter (12 month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Check the tag of the device
3	Check the tag of the cable and check the connections of the device
4	Check the cable gland and shroud of the cable
5	Check the sealing of the device
6	Check the Earth connection
7	Check tube route and rectify in case of leakage.
8	General cleaning
9	Checking the absence of fluid leakage from the connection point of the equipment to the process lines.
10	Checking the value shown on the equipment screen with the control room and adjacent local displays. Before starting calibration, device should be out of service: e.g.: In the first step (for PDT, FT) close the HIGH side of isolation valve then open EQUALIZE valve and after that close the LOW side of isolation Valve. Now device is ready to calibrate.
11	After finishing calibration, device should be in service: e.g.: In the first step (for PDT, FT) close drain valves then open the LOW side of isolation valve then close EQUALIZE valve and after that open the HIGH side of isolation Valve. Now device is ready to work.
12	Full Calibration.
13	For other flow instrument such as "ultrasonic flow meters, turbine meters, PD meters, magnetic meters and etc." manufacturer's recommended procedure shall be used.
14	Equipment and work environment should be cleaned.
15	In case of failure, a repair order must be issued.
16	Get work acceptance from applicant.
17	Close The Permit.



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Table 45: Level Transmitter (6 month)

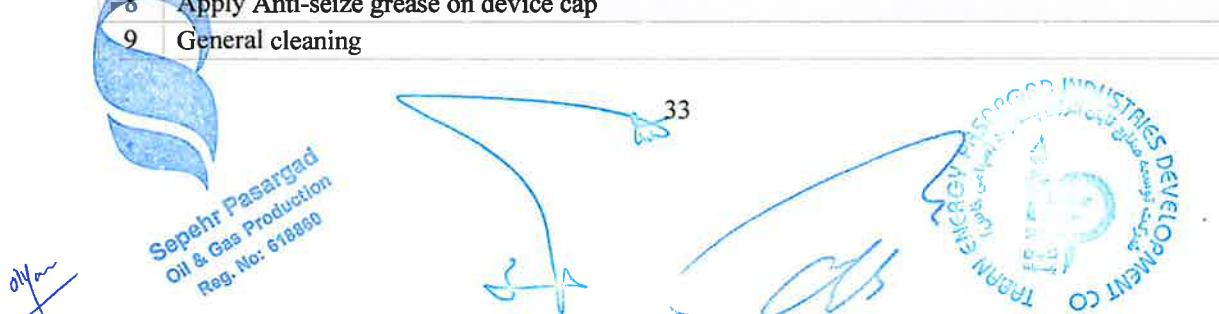
Discipline: Instrumentation

- | | |
|----|---|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check the tag of the device |
| 3 | Check the tag of the cable and check the connections of the device |
| 4 | Check the cable gland and shroud of the cable |
| 5 | Check the sealing of the device |
| 6 | Check the Earth connection |
| 7 | check tube route and rectify in case of leakage. |
| 8 | Apply Anti-seize grease on device cap |
| 9 | General cleaning |
| 10 | Checking the absence of fluid leakage from the connection point of the equipment to the process lines. |
| 11 | Checking the value shown on the equipment screen with the control room and adjacent local displays. |
| 12 | Full Calibration. 0 - 25% - 50% - 75% - 100%. |
| 13 | For other type of Level transmitter such as "Displacer, Ultrasonic, Radar and capillary etc." manufacturer's recommended procedure shall be used. |
| 14 | Equipment and work environment should be cleaned. |
| 15 | In case of failure, a repair order must be issued. |
| 16 | Get work acceptance from applicant. |
| 17 | Close The Permit. |

Table 46: Level Transmitter (12 month)

Discipline: Instrumentation

- | | |
|---|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check the tag of the device |
| 3 | Check the tag of the cable and check the connections of the device |
| 4 | Check the cable gland and shroud of the cable |
| 5 | Check the sealing of the device |
| 6 | Check the Earth connection |
| 7 | check tube route and rectify in case of leakage. |
| 8 | Apply Anti-seize grease on device cap |
| 9 | General cleaning |



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10	Checking the absence of fluid leakage from the connection point of the equipment to the process lines.
11	Checking the value shown on the equipment screen with the control room and adjacent local displays.
12	Full Calibration. 0 - 25% - 50% - 75% - 100%.
13	For other type of Level transmitter such as "Displacer, Ultrasonic, Radar and capillary etc." manufacturer's recommended procedure shall be used.
14	Equipment and work environment should be cleaned.
15	In case of failure, a repair order must be issued.
16	Get work acceptance from applicant.
17	Close The Permit.

Table 47: Pressure Transmitter (6 month)

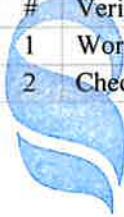
Discipline: Instrumentation

#	Verify the following points:
1	Work permit required.
2	Check the tag of the device
3	Check the tag of the cable and check the connections of the device
4	Check the cable gland and shroud of the cable
5	Check the sealing of the device
6	Check the Earth connection
7	Check tube route and rectify in case of leakage.
8	General cleaning
9	Checking the absence of fluid leakage from the connection point of the equipment to the process lines.
10	Checking the value shown on the equipment screen with the control room and adjacent local displays.
11	Equipment and work environment should be cleaned.
12	In case of failure, a repair order must be issued.
13	Get work acceptance from applicant.
14	Close The Permit.

Table 48: Pressure Transmitter (12 month)

Discipline: Instrumentation

#	Verify the following points:
1	Work permit required.
2	Check the tag of the device



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- | | |
|----|--|
| 3 | Check the tag of the cable and check the connections of the device |
| 4 | Check the cable gland and shroud of the cable |
| 5 | Check the sealing of the device |
| 6 | Check the Earth connection |
| 7 | check tube route and rectify in case of leakage. |
| 8 | Apply Anti-seize grease on device cap |
| 9 | General cleaning |
| 10 | Checking the absence of fluid leakage from the connection point of the equipment to the process lines. |
| 11 | Checking the value shown on the equipment screen with the control room and adjacent local displays. |
| 12 | Full Calibration. 0 - 25% - 50% - 75% - 100%. |
| 13 | Equipment and work environment should be cleaned. |
| 14 | In case of failure, a repair order must be issued. |
| 15 | Get work acceptance from applicant. |
| 16 | Close The Permit. |

Table 49: Temperature Transmitter (6 month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Check the tag of the device
3	Check the tag of the cable and check the connections of the device
4	Check the cable gland and shroud of the cable
5	Check tag of thermowell.
6	Check the sealing of the device
7	Check the Earth connection
8	General cleaning
9	Checking the value shown on the equipment screen with the control room and adjacent local displays.
10	Check sensor.
11	Equipment and work environment should be cleaned.
12	In case of failure, a repair order must be issued.
13	Get work acceptance from applicant.
14	Close The Permit.



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Table 50: Temperature Transmitter (12 month)

Discipline: Instrumentation

- | | |
|----|---|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check the tag of the device |
| 3 | Check the tag of the cable and check the connections of the device |
| 4 | Check the cable gland and shroud of the cable |
| 5 | Check the sealing of the device |
| 6 | Check the Earth connection |
| 7 | Apply Anti-seize grease on device cap |
| 8 | General cleaning |
| 9 | Full Calibration. 0 - 25% - 50% - 75% - 100%. |
| 10 | Checking the value shown on the equipment screen with the control room and adjacent local displays. |
| 11 | Equipment and work environment should be cleaned. |
| 12 | In case of failure, a repair order must be issued. |
| 13 | Get work acceptance from applicant. |
| 14 | Close The Permit. |

Table 51: Hydraulic Actuator & Panel -ESDV (6 month)

Discipline: Instrumentation

- | | |
|----|---|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check the tag of the device |
| 3 | Check the tag of the cable and check the connections of the device |
| 4 | Check the cable gland and shroud of the cable |
| 5 | Check the sealing of the device |
| 6 | Check the Earth connection |
| 7 | General cleaning |
| 8 | Check the fitting for any leakage and rectify the problem. |
| 9 | Check the Solenoid Valve and in case of leakage change the relevant O-Ring. |
| 10 | Function test and record open and close timing. |
| 11 | Equipment and work environment should be cleaned. |
| 12 | In case of failure, a repair order must be issued. |
| 13 | Get work acceptance from applicant. |
| 14 | Close The Permit. |

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Table 52: Level Gauge (6 month)

Discipline: Instrumentation

- | | |
|---|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check the tag of the device |
| 3 | General cleaning |
| 4 | Equipment and work environment should be cleaned. |
| 5 | Perform flashing of Level Gauge. |
| 6 | In case of failure, a repair order must be issued. |
| 7 | Get work acceptance from applicant. |
| 8 | Close The Permit. |

Table 53: Level Gauge (12 month)

Discipline: Instrumentation

- | | |
|---|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check the tag of the device |
| 3 | General cleaning |
| 4 | Equipment and work environment should be cleaned. |
| 5 | Full Calibration. |
| 6 | In case of failure, a repair order must be issued. |
| 7 | Get work acceptance from applicant. |
| 8 | Close The Permit. |

Table 54: Level Switch (6 month)

Discipline: Instrumentation

- | | |
|---|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check the tag of the device |
| 3 | Check the tag of the cable and check the connections of the device |
| 4 | Check the cable gland and shroud of the cable |
| 5 | Check the sealing of the device |
| 6 | Check the Earth connection |
| 7 | General cleaning |
| 8 | Checking the absence of fluid leakage from the connection point of the equipment to the process lines. |
| 9 | Equipment and work environment should be cleaned. |

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|----|--|
| 10 | In case of failure, a repair order must be issued. |
| 11 | Get work acceptance from applicant. |
| 12 | Close The Permit. |

Table 55: Level Switch (12 month)

Discipline: Instrumentation

- | | |
|----|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check the tag of the device |
| 3 | Check the tag of the cable and check the connections of the device |
| 4 | Check the cable gland and shroud of the cable |
| 5 | Check the sealing of the device |
| 6 | Check the Earth connection |
| 7 | Apply Anti-seize grease on device cap |
| 8 | General cleaning |
| 9 | Checking the absence of fluid leakage from the connection point of the equipment to the process lines. |
| 10 | Full Calibration and record set point. |
| 11 | Equipment and work environment should be cleaned. |
| 12 | In case of failure, a repair order must be issued. |
| 13 | Get work acceptance from applicant. |
| 14 | Close The Permit. |

Table 56: Level Transmitter DPT (6 month)

Discipline: Instrumentation

- | | |
|----|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check the tag of the device |
| 3 | Check the tag of the cable and check the connections of the device |
| 4 | Check the cable gland and shroud of the cable |
| 5 | Check the sealing of the device |
| 6 | Check the Earth connection |
| 7 | Apply Anti-seize grease on device cap |
| 8 | General cleaning |
| 9 | Checking the absence of fluid leakage from the connection point of the equipment to the process lines. |
| 10 | Full Calibration and record set point. |

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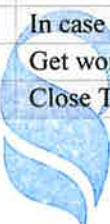
- | | |
|----|--|
| 11 | Equipment and work environment should be cleaned. |
| 12 | In case of failure, a repair order must be issued. |
| 13 | Get work acceptance from applicant. |
| 14 | Close The Permit. |

Table 57: Level Transmitter Radar (6 month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Check the tag of the device
3	Check the tag of the cable and check the connections of the device
4	Check the cable gland and shroud of the cable
5	Check the sealing of the device
6	Check the Earth connection
7	Apply Anti-seize grease on device cap
8	General cleaning
9	Checking the absence of fluid leakage from the connection point of the equipment to the process lines.
10	Full Calibration and record set point.
11	Equipment and work environment should be cleaned.
12	In case of failure, a repair order must be issued.
13	Get work acceptance from applicant.
14	Close The Permit.

Table 58: Pressure Gauge (3 month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Check the tag of the device
3	General cleaning
4	Equipment and work environment should be cleaned.
5	Checking the glycerin of the gauge, refill if needed
6	In case of failure, a repair order must be issued.
7	Get work acceptance from applicant.
8	Close The Permit.



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Table 59: Pressure Gauge (6 month)

Discipline: Instrumentation

- | | |
|---|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check the tag of the device |
| 3 | General cleaning |
| 4 | Equipment and work environment should be cleaned. |
| 5 | Checking the glycerin of the gauge, refill if needed |
| 6 | Conducting the ZERO CHECK test of the equipment. |
| 7 | In case of failure, a repair order must be issued. |
| 8 | Get work acceptance from applicant. |
| 9 | Close The Permit. |

Table 60: Pressure Gauge (12 month)

Discipline: Instrumentation

- | | |
|---|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check the tag of the device |
| 3 | General cleaning |
| 4 | Equipment and work environment should be cleaned. |
| 5 | Checking the glycerin of the gauge, refill if needed |
| 6 | Full Calibration. |
| 7 | In case of failure, a repair order must be issued. |
| 8 | Get work acceptance from applicant. |
| 9 | Close The Permit. |

Table 61: Pressure Switch (6 month)

Discipline: Instrumentation

- | | |
|---|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check the tag of the device |
| 3 | Check the tag of the cable and check the connections of the device |
| 4 | Check the cable gland and shroud of the cable |
| 5 | Check the sealing of the device |
| 6 | Check the Earth connection |
| 7 | General cleaning |



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8	Checking the absence of fluid leakage from the connection point of the equipment to the process lines.
9	Clean the sensors.
10	Equipment and work environment should be cleaned.
11	In case of failure, a repair order must be issued.
12	Get work acceptance from applicant.
13	Close The Permit.

Table 62: Pressure Switch (12 month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Check the tag of the device
3	Check the tag of the cable and check the connections of the device
4	Check the cable gland and shroud of the cable
5	Check the sealing of the device
6	Check the Earth connection
7	Apply Anti-seize grease on device cap
8	General cleaning
9	Clean the sensors.
10	Checking the absence of fluid leakage from the connection point of the equipment to the process lines.
11	Full Calibration.
12	Equipment and work environment should be cleaned.
13	In case of failure, a repair order must be issued.
14	Get work acceptance from applicant.
15	Close The Permit.

Table 63: Temperature Gauge (3 month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Check the tag of the device
3	General cleaning
4	Equipment and work environment should be cleaned.
5	In case of failure, a repair order must be issued.
6	Get work acceptance from applicant.

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7 Close The Permit.

Table 64: Temperature Gauge (12 month)

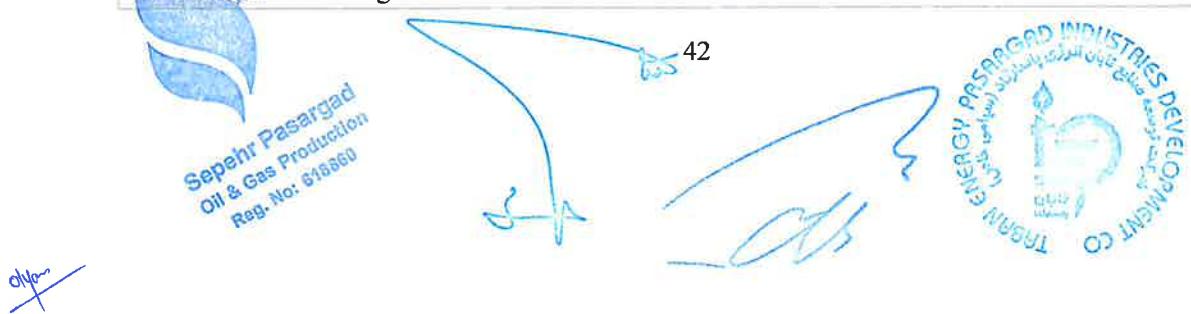
Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Check the tag of the device
3	General cleaning
4	Full Calibration.
5	Equipment and work environment should be cleaned.
6	In case of failure, a repair order must be issued.
7	Get work acceptance from applicant.
8	Close The Permit.

Table 65: Temperature switch (6 month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Check the tag of the device
3	Check the tag of the cable and check the connections of the device
4	Check the cable gland and shroud of the cable
5	Check the sealing of the device
6	Check the Earth connection
7	General cleaning
8	Clean the sensors.
9	Equipment and work environment should be cleaned.
10	In case of failure, a repair order must be issued.
11	Get work acceptance from applicant.
12	Close The Permit.

Table 66: Temperature switch (12 month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Check the tag of the device
3	Check the tag of the cable and check the connections of the device
4	Check the cable gland and shroud of the cable



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5	Check the sealing of the device
6	Check the Earth connection
7	Apply Anti-seize grease on device cap
8	General cleaning
9	Clean the sensors.
10	Full Calibration.
11	Equipment and work environment should be cleaned.
12	In case of failure, a repair order must be issued.
13	Get work acceptance from applicant.
14	Close The Permit.

Table 67: Wellhead Control Panel (3 Month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Carry out visual inspection of wellhead control panel.
3	Inspect the route of tubing from output of WHCP to Wells and HIPPS.
4	Inspect the panel, tank, pumps, valves, pipe work, tubing, hoses and fittings for corrosion, damage or leaks and rectify leakage or damage.
5	Visual check of cables.
6	Clean any dirt and oil from WHCP.
7	Check contacts tight and integrity of junction boxes.
8	Check hydraulic leakage in system and Drain reservoir and refill with clean hydraulic oil.
9	Check leakage and operation of level switch
10	Depressurize WHCP according to procedure: then OPEN NV100 (related to SSSV), OPEN NV 200 (related to SSV), OPEN NV 600 (related to HIPPS).
11	Check and record standby & duty status of all filters and change it. (F100,101- F200,201 - F600,601)
12	Check and record standby & duty status of all selector of pump and change it. (e.x: p100-101 TO p101-100 & P200-201 TO P201-200 & P600-601 TO P601-600)
13	Measurement and Record of the oil level from oil tank and refill at least 75% of capacity.
14	Check and record the nitrogen gas pre-charge pressure in the hydraulic accumulators by charge kit and recharge in case of necessity.
15	Clean the hydraulic pump and hand suction strainers.
16	Check leakage and operation of hand pump
17	Pressurize WHCP according to procedure: then CLOSE NV100 (related to SSSV), CLOSE NV 200 (related to SSV), CLOSE NV 600 (related to HIPPS).



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18	Check leakage and operation of hydraulic regulator
19	Check leakage and operation of valves
20	Check fluid level in reservoir and refill in case of necessity.
21	inspect the panel, tank, pumps, valves, pipe work, tubing, hoses and fittings for corrosion, damage, deterioration or leaks and rectify leakage or damage.
22	Equipment and work environment should be cleaned.
23	In case of failure, a repair work order must be issued.
24	Get work acceptance.
25	Close The Permit.

Table 68: Wellhead Control Panel (12 month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Carry out visual inspection of wellhead control panel.
3	Inspect the route of tubing from output of WHCP to Wells and HIPPS.
4	Inspect the panel, tank, pumps, valves, pipe work, tubing, hoses and fittings for corrosion, damage or leaks and rectify leakage or damage.
5	Clean any dirt and oil from WHCP.
6	Check hydraulic leakage in system and Drain reservoir and refill with clean hydraulic oil.
7	At the first time get permission from site operator to Push Hydraulic ESD bottom and record closing sequence time of SSSV and adjusted in case of necessity. (This time should be between 20 s to 30 s)
8	Depressurize WHCP according to procedure: then OPEN NV100 (related to SSSV), OPEN NV 200 (related to SSV), OPEN NV 600 (related to HIPPS).
9	Get hydraulic oil sample from storage tank for laboratory.
10	Check suction, discharge connection, leakage and coupling of hydraulic pumps.
11	Clean the return filter on the hydraulic storage tank.
12	Clean the hydraulic pump and suction strainers.
13	Function test of the SSSV & SSV regulators.
14	Function test on all pumps, pressure gauges, relief valve, controllers, switches and etc.
15	Check and record the nitrogen gas pre-charge pressure in the hydraulic accumulators by charge kit and recharge in case of necessity.
16	Check oil level in reservoir and refill in case of necessity.
17	Function test of interface valves, pilot valves, solenoid valves
18	Measurement and Record of the oil level from oil tank and refill at least 75% of capacity.
19	Test all of the lamp signal by Lamp test

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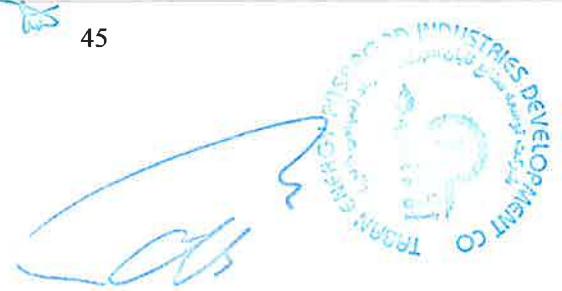
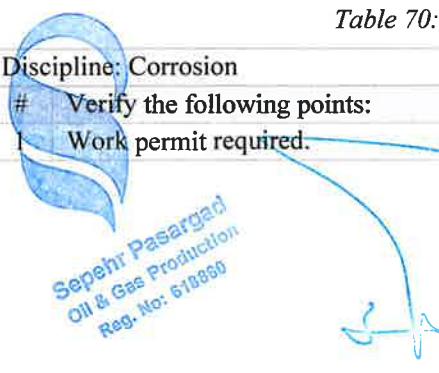
20	Simulate Pressure Transmitter related to fusible plug with drain valve less than minimum pressure initiates a close signal for production wellhead SSSV and SSV and trips hydraulic pumps.
21	Carry out full Calibration of the following wellhead control panel pressure shutdown loops.
22	Function tests the hydraulic Hand Pump and ensure that it is operating correctly.
23	Hydraulic Pumps Function test.
24	Function test all of the Pressure Switch (PSLL&PSHH) in WHCP
25	Function test of LS on hydraulic tank
26	Simulate Low pressure flow line initiates a close signal for production wellhead SCSSVs and SSV and trips hydraulic pumps.
27	Simulate High pressure flow line initiates a close signal for production wellhead SCSSVs and SSV and trips hydraulic pumps.
28	Equipment and work environment should be cleaned.
29	In case of failure, a repair order must be issued.
30	Get work acceptance from applicant.
31	Close The Permit.

Table 69: Fire and Gas System (3 month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Check the tag of the device
3	Check the tag of the cable and check the connections of the device
4	Check the cable gland and shroud of the cable
5	Check the sealing of the device
6	Check the Earth connection
7	Function test (Detector & Audible & Beacons)
8	General cleaning (sensors.)
9	Equipment and work environment should be cleaned.
10	In case of failure, a repair order must be issued.
11	Get work acceptance from applicant.
12	Close The Permit.

Table 70: Fire and Gas System (12 month)

Discipline: Corrosion	
#	Verify the following points:
1	Work permit required.



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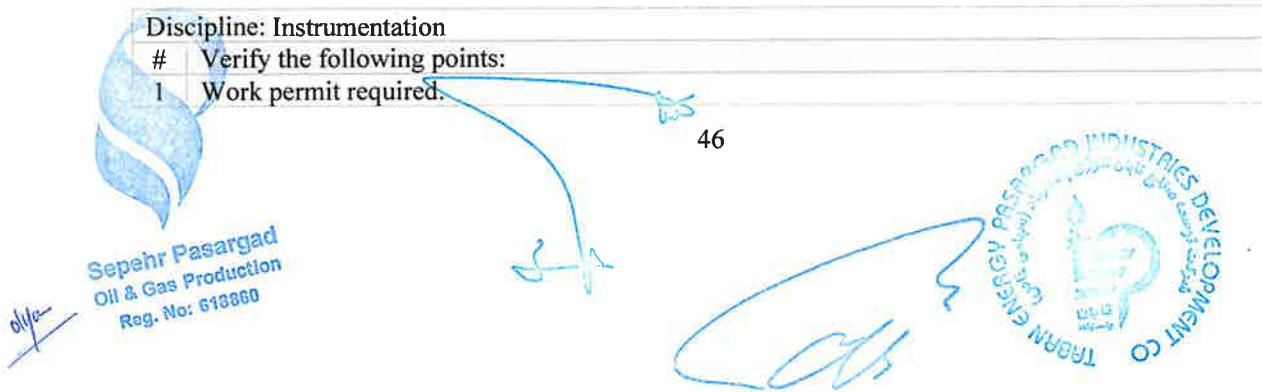
- | | |
|----|--|
| 2 | Check the tag of the device |
| 3 | Check the tag of the cable and check the connections of the device |
| 4 | Check the cable gland and shroud of the cable |
| 5 | Check the sealing of the device |
| 6 | Check the Earth connection |
| 7 | Function test (Detector & Audible & Beacons) |
| 8 | General cleaning (sensors,) |
| 9 | Apply Anti-seize grease on device cap |
| 10 | Full Calibration. |
| 11 | Equipment and work environment should be cleaned. |
| 12 | In case of failure, a repair order must be issued. |
| 13 | Get work acceptance from applicant. |
| 14 | Close The Permit. |

Table 71: F&G Panel (3 month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Check the tag of the panel
3	Check the tag of the cable and check the connections of the terminals and tighten
4	Check the cable gland and shroud of the cable
5	Check the sealing of the device
6	Check the Earth connection
7	To confirm There are no visual signs of burning, overheating or damage and no burning smell at the cabin.
8	To confirm all electrical connection on fuse boxes are tighten and has been checked for looseness.
9	To confirm LCD touch panel
1	To confirm alarm test from touch panel and check sound alarm and flash beacon
0	
1	In case of failure, a repair order must be issued.
1	
1	Get work acceptance.
2	
1	Close The Permit.
3	

Table 72: Control Valve (6 month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.



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- 2 Check the tag of the device
- 3 Check the tag of the cable and check the connections of the device
- 4 Check the cable gland and shroud of the cable
- 5 Check the sealing of the device
- 6 Check the Earth connection
- 7 Fixing all Pneumatic lines and accessories
- 8 Check all accessories of valve (Positioner Booster relay)
- 9 Check vent cap on diaphragm case
- 10 Perform leak test (all parts) make sure no any leakage
- 11 Adjust instrument air pressure according to the valve name plate
- 12 Stroke check of valve (0_25_75_100 percent and vice versa)
- 13 Calibration the valve (if required)
- 14 Verify that the control valve with position switch is in correct position
- 15 Equipment and work environment should be cleaned.
- 16 In case of failure, a repair order must be issued.
- 17 Get work acceptance from applicant.
- 18 Close The Permit.

Table 73: MOV (6 month)

- | | |
|-----------------------------|---|
| Discipline: Instrumentation | |
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check the tag of the device |
| 3 | Check the tag of the cable and check the connections of the device |
| 4 | Check the cable gland and shroud of the cable |
| 5 | Check the sealing of the device |
| 6 | Check the Earth connection |
| 7 | Check local display for any alarm or fault |
| 8 | Active the MOV from local (fully close and open) |
| 9 | Active the MOV from control room |
| 10 | Calibration check (if required) |
| 11 | Ensure clutch function is proper |
| 12 | Change the battery (if required) |
| 13 | Stroke check. |
| 14 | Put selector switch of mov on local mode and check fault alarm is activated in control room |
| 15 | Normalize motor operative valve and ensure any overrides are removed and recorded |
| 16 | Equipment and work environment should be cleaned. |
| 17 | In case of failure, a repair order must be issued. |
| 18 | Get work acceptance from applicant. |
| 19 | Close The Permit. |

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Table 74: ESD Panel (6 month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Check the tag of the panel
3	Check the tag of the cable and check the connections of the terminals and tighten
4	Check the cable gland and shroud of the cable
5	Check the sealing of the device
6	Check the Earth connection
7	Function test of push button
8	check spare fuses and replace if necessary
9	Equipment and work environment should be cleaned.
10	In case of failure, a repair order must be issued.
11	Get work acceptance from applicant.
12	Close The Permit.

Table 75: Panel (HIPPS Panel) (6 month)

Discipline: Instrumentation	
#	Verify the following points:
1	Work permit required.
2	Check the tag of the cabin
3	External cleaning
4	Internal cleaning
5	Visual check of all devices inside the panel
6	Visual check of all devices inside the HC
7	Check digital I/O card
8	Check analog I/O card
9	Check wiring/cable gland and tightening terminals
10	Perform lamp test with lamp test push bottom
11	Check the temperature inside cabinet
12	Clean air filter or replace
13	Clean the panel work station with vacuum cleaner
14	Clean the racks with a soft brush
15	Tightening the terminal blocks
16	Check ventilation fan
17	Check anti-condensation heater and setting of thermostats
18	Check lighting and door switches
19	CPU redundancy test
20	Normalize the cabinet and ensure any overrides are removed and recorded
21	Check the power supply in the cabinet log the values
22	Check the battery expiration date and replace if necessary. (Two years)

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- 23 Equipment and work environment should be cleaned.
- 24 In case of failure, a repair order must be issued.
- 25 Get work acceptance from applicant.
- 26 Close The Permit.

Table 76: Split Unit (6 month)

Discipline: HVAC

- | | |
|----|---|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Check the cleaning of machine. |
| 3 | Storage the gas in condenser. |
| 4 | Remove the evaporator to workshop. |
| 5 | Check and inspection all electrical parts and joints such as relay, electrical terminal, capacitor and electrical kits. |
| 6 | Wash condenser. |
| 7 | Wash evaporator. |
| 8 | Check the thermostat and pressure switch. |
| 9 | Check motor damper and high damper. |
| 10 | Service the drain line completely. |
| 11 | Check and fasten the mechanical joint of condenser and evaporator if needed. |
| 12 | Reinstall the evaporator. |
| 13 | Check the all-electrical joints. |
| 14 | Do leakage testing. |
| 15 | Vacuum and opening the gas line. |
| 16 | Do cooler run test. |
| 17 | Charging extra gas. |
| 18 | Record the suction and discharge gas pressure after start. |
| 19 | Record the amperage after start. |
| 20 | Check the vibration. |
| 21 | In case of failure, a repair work order must be issued. |
| 22 | Get work acceptance. |
| 23 | Close The Permit. |

Table 77: Corrosion Coupon (6 month)

Discipline: Corrosion

- | | |
|---|---|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Measure and record weight dimension and tag number of new coupons to be installed |
| 3 | Service valve and retriever installation on access fitting |
| 4 | Perform coupon retriever and device depressurizing with respect to HSE rules and regulation |
| 5 | Take a photo of the visual situation of each coupon (both sides) coupon location on holders shall be recorded (Top middle bottom of the pipe) |



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- | | |
|----|---|
| 6 | Retrieved coupon of each location shall be put in separate plastic bag |
| 7 | Install pre-weighted new coupon on the holder and record he location (Top middle bottom of the pipe) solid plug greasing and final installation in the access fitting |
| 8 | Access fitting greasing and tightening the heavy-duty cover. |
| 9 | Retrieved coupons shall be changed according to NACE RP-0775. final weight shall be measured after cleaning and drying |
| 10 | Prepare Report. |
| 11 | Get work acceptance. |
| 12 | Close The Permit. |

Table 78: Corrosion Probe (6 month)

Discipline: Corrosion

- | | |
|---|------------------------------|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | Corrosion Probe Reading |
| 3 | Prepare Report |
| 4 | Get work acceptance. |
| 5 | Close The Permit. |

Table 79: Insulation Joint (3 month)

Discipline: Corrosion

- | | |
|---|---|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | check of paint, mechanical damage & insulation filler |
| 3 | Electrical insulation Test by IJ Tester |
| 4 | Case of failure, a repair work order must be issued. |
| 5 | Get work acceptance. |
| 6 | Close The Permit. |

Table 80: Anode Bed Check & survey potential measurement (3 month)

Discipline: Corrosion

- | | |
|----|--|
| # | Verify the following points: |
| 1 | Work permit required. |
| 2 | check of anode bed bond box and markers |
| 3 | check of cabling in Bond Box |
| 4 | potential measurement from TP cable |
| 5 | anode current measurement from anoding cable by clampmeter |
| 6 | anode potential measurement after disconnected to pipeline |
| 7 | To prepare a report of Anode bed check |
| 8 | Case of failure, a repair work order must be issued. |
| 9 | Get work acceptance |
| 10 | Close The Permit. |

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Table 81: Pipeline Pigging Operations (6 month)

Discipline: Corrosion

- | # | Verify the following points: |
|----|--|
| 1 | Work permit required. |
| 2 | The pipeline maps and documents have been reviewed. |
| 3 | Safety and maintenance instructions have been reviewed. |
| 4 | Pigging equipment (pig, launching and receiving systems) is ready and has been tested. |
| 5 | Personal protective equipment (PPE), including helmets, gloves, safety shoes, and goggles, is ready. |
| 6 | The pipeline has been inspected for the presence of sediment or internal obstructions. |
| 7 | The pipeline pressure has been adjusted to the minimum required for pigging. |
| 8 | The pig has been correctly placed in the launch chamber. |
| 9 | The pig is moving correctly, and no signs of jamming have been observed. |
| 10 | The pig has been correctly received in the reception chamber. |
| 11 | The condition of the pig (damage, sediment, or foreign materials) has been inspected. |
| 12 | The condition Intermediate Station Valves During Pigging Operations |
| 13 | The pipeline has been inspected for cleanliness and resolution of issues. |
| 14 | All data related to the operation has been recorded. |
| 15 | A final report of the operation, including observations and recommendations, has been prepared. |
| 16 | No accidents or injuries occurred during the operation. |
| 17 | Clean the equipment and work environment. |



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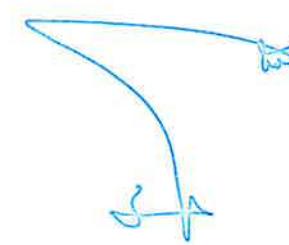




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APPENDIX “2”

COMPENSATION



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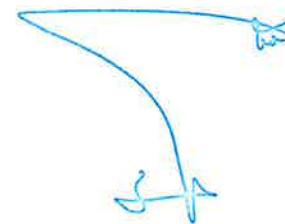




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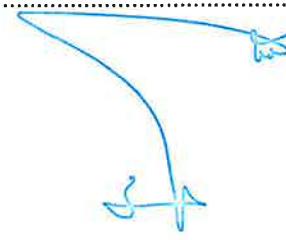


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1 Introduction

All amounts including all Unit Rates and prices contained within this Appendix subject to the terms and conditions of Contract are full compensation to the Contractor which includes, inter alia, all costs and expenses of the Contractor's obligations, responsibilities and liabilities under Contract and are inclusive of all overheads, contribution to profit and all costs and expenses of whatever name, kind and nature incurred by Contractor including but not limited to the management, labor and Personnel and all related services, expenditures and costs including but not limited to hiring and releasing, wages, benefit, travel time, leave, overtime, sick time, insurance etc., all materials and provision of offices including office clerks, all facilities and equipment related to Services, Project control, Project managers and coordinators for the Services, tools and goods and computer and laptop and hardware and software and publication and all associated services, vehicles, transportation, passport and visas, residence permit, work permit for Work involved non-Iranian employees, insurances related to services and Personnel, compliance with HSSE Rules and Regulations of Company, security, risk of time and costs, all taxes (Iranian and non-Iranian), SSO charges, costs of bank guarantees, transfer charges and duties, costs of money transactions and transfer and exchanges, collaboration with ministries and organizations and companies and other entities, permissions, and so forth.

2 Basis for Calculation

2.1 For Payment on the basis of time:

"Day" shall mean a calendar day;

"Week" shall mean any consecutive seven (7) Day period during which Work is performed; and

"Month" shall mean Calendar Month during which Work is performed.

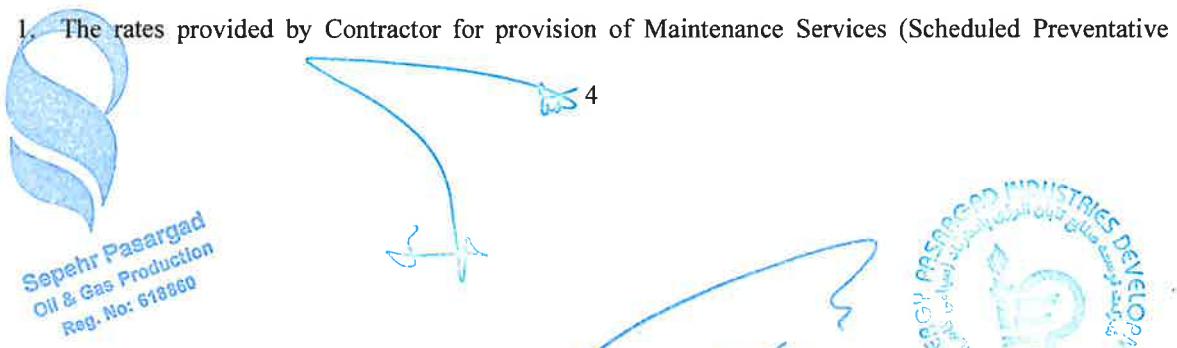
2.2 All-Inclusive Prices/Rates/Charges

All-inclusive prices/rates/charges/ shall mean total cost payable by the Company and shall include all costs, expenses and profit the Contractor incurs in providing the Work to the Company, unless specified otherwise in the Contract.

The Contractor's prices/rates/charges and mark-ups shall be fixed throughout the Term of the Contract and any extension of the Contract term

3 Contract Price

1. The rates provided by Contractor for provision of Maintenance Services (Scheduled Preventative

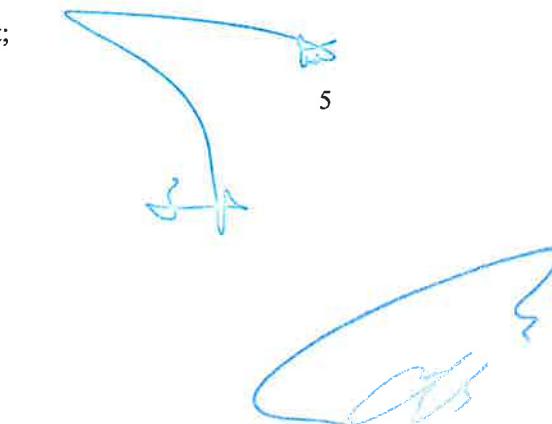


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Maintenance Activities, Scheduled Wellhead Maintenance Services, scheduled Housekeeping Services of Operating Area, Special Technical Inspection Services, Technical Supports by Vendor, Materials and Consumables provision activities stipulated in Appendix-2-Maintenance Compensation shall include for all expenses required to successfully complete the service to Company satisfaction, including but not limited to:

- a. All applicable deductibles such as Tax, SSO and expenses for permits, licenses, etc.
 - b. All required manpower
 - c. Mobilization/ Demobilization
 - d. Contractor's camp running including but not limited to provision of power, diesel, water, fence, security, maintenance and etc.
 - e. All required tools and machinery
 - f. All required consumables such as fuel, cleaning agents, corrosion inhibitors, solvents, rags, disposable protection clothing and etc.
 - g. All other facilities and services such as PPE, workshop, warehouse, inspection, transportation, accommodation, food
 - h. etc.
2. Cost in respect of provision of Materials shall include but not limited to:
- a. Actual Materials cost payable by Contractor after taking into considerations of all types of discounts, commissions, and any recoverable duties and taxes;
 - b. All additional costs for delivery of Materials to the Company instructed location (i.e. storage warehouse, or Site location), including but not limited to freight charges, insurance, transportation, port clearance /handling charges and custom duties; and all required inspection and testing.
3. Contractor proposal in respect of provision of required services shall include but not limited to:
- a) Actual Materials (software/hardware) and consumables cost taking into consideration all types of discounts, commissions, and any recoverable duties and taxes;
 - b) All additional costs for delivery of Materials to and performing the Services in the Company instructed location (i.e. storage warehouse, or Site location), including transportation, accommodation, freight charges, insurance, port clearance /handling charges and custom duties, license, permit, visa;
 - c) Personnel Cost;



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- d) All required inspection and testing
4. Contractor will be compensated for procurement of such Materials and provision of such Vendor Support Services based on Company approved proposals. All Contractor handling, administration, marketing, coordination, financing, procurement services, overheads and profit elements and all other costs related to providing such services shall be deemed to be recovered within the above "approved proposal". No Extra "Service Fee" considered for above items. The rates for item "Manpower Required for Call-Off Services" shall be comprehensive and include but not limited to:
- a) Wages and all costs, payments and charges include annual and public holidays, off time, travelling time, expenses, fares and transport, guarantee time, incentive and bonus payments, dirty money and danger money and other disbursements arising from employment of labor including redundancy payments and any requirements of the Islamic Republic of Iran Labor Law.
 - b) Charges in respect of Site and office supervision including foremen time and extra emoluments paid to foremen and leading craftsmen and gangers, small tools, HSSE requirements and personal protective requirement etc.
 - c) Office overhead charges such as: rent, rates, insurance's, electricity, gas, fuel, water, printing, stationery, postage, telephone charges, motor car expenses etc. and repairs, renewals, maintenance and depreciation of premises, machinery plant etc.
 - d) Profit, etc.
5. The Contractor personnel operation rate on daily basis shall apply when Contractor personnel arrive on working area designated by Company and start to carry out work designated by Company.
6. Only when Contractor is specifically instructed, in writing, by Company to work outside Normal Working Hour, will overtime be certified, and payment for such overtime will only be made if such overtime cannot be compensated by means of off time. Any hours work more than 8 hours shall define as overtime, overtime rate as specified in this section will be applicable. Company may deduct the manpower cost using the applicable rate for the manpower as specified in this Contract, for any time that a position is not filled by a fully trained, certified, experienced person qualified and competent to perform the required duties of that position till these personnel has been replaced and qualified.
7. Contractor shall provide transportation and haulage of Contractor Personnel to and from working area designated by Company. In this respect the costs of transportation, fuel, haulage and travelling time shall be deemed to be included in the Rates. No separate payment shall be made by Company to Contractor for such transportation costs.
8. The Contractor equipment operation rate on daily basis for Machinery provision shall apply when Contractor equipment arrives on working area designated by Company and start to carry out work



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designated by Company.

3.1 Itemized Contract Price

Itemized Contract Price for full, complete and satisfactory performance of the Work is as follow (Table 1):

Table 1: Itemized Contract Price

No.	Item	Total Price (USD)
1.	Sub-Total Price of Table 2: Mobilization/Demobilization and Supporting Services	910,632.03
2.	Sub-Total Price of Table 3: Scheduled Preventative Maintenance Activities	796,180.99
3.	Sub-Total Price of Table 4: Housekeeping Services	89,570.36
4.	Sub-Total Price of Table 5: Corrective Maintenance Works	64,689.71
5.	Sub-Total Price of Table 6: Technical Inspection and Corrosion Protection	24,880.66
6.	Sub-Total Price of Table 7: Scheduled Wellhead Maintenance Services	72,153.90
7.	Sub-Total Price of Table 8: Vendor Support for Special Equipment	154,260.07
8.	Sub-Total Price of Table 9: Ball Valves Repair	37,320.98
9.	Sub-Total Price of Table 10: Double Block and Bleed Valves Repair	39,809.05
10.	Sub-Total Price of Table 11: Gate Valves Repair	37,320.98
11.	Sub-Total Price of Table 12: Check Valves Repair	37,320.98
12.	Sub-Total Price of Table 13: ESDV Actuator Repairs	47,273.25
13.	Sub-Total Price of Table 14: Calibration & Repair of Safety Valve & RTV & Relief Valve	97,034.56
14.	Sub-Total Price of Table 15: Supplying Power by Diesel Generator	796,180.99
15.	Sub-Total Price of Table 16: Required Manpower for Other Services	44,785.18
16.	Sub-Total Price of Table 17: Special Equipment Provision	298,567.87
17.	Sub-Total Price of Table 18: Machinery Provision (Monthly Requirement)	942,479.25
18.	Sub-Total Price of Table 19: Per Case Requirement (Daily) of Machinery	174,164.59
19.	Sub-Total Price of Table 20: Laboratory Consumables	32,842.47
20.	Sub-Total Price of Table 21: Maintenance Consumables	174,164.59
21.	Sub-Total Price of Table 22: Civil Maintenance Material	74,641.97
22.	Sub-Total Price of Table 23: Training Courses	29,856.79
23.	Total gross Price (USD)	4,976,131.20

Note 1: If Contractor fails to meet its obligations under this Contract related to Maintenance services, compensation to Contractor shall be subject to "Penalty Amount" stipulated in this Appendix.

3.2 Breakdown of Contract Price

Breakdown of Contract Price to be performed satisfactorily by Contractor is as follows:



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3.2.1 Mobilization/Demobilization and Supporting Services

Mobilization shall include all necessary activities involved in mobilizing Contractor's Personnel, equipment, and materials and provision of Camp and offices (according to Section 9 Appendix 1- Scope of Work) at the maximum 60 Days after the Commencement Date.

Demobilization shall include all necessary activities involved in demobilizing Contractor's Personnel, equipment, materials and Contractor site service camp at the maximum 15 Days after the end of the Contract period which will be declared via an official letter.

Company shall pay one Mobilization and Demobilization charge at lump sum base, including all the cost of transportation of Contractor's equipment, personnel, material, tools, camp, offices and infrastructure.

Table 2: Prices for Mobilization and Demobilization

Item	Description			Lump Sum Price (USD)
1	Mobilization			267,833.00
2	Demobilization			53,566.63
Item	Description	Month	Unit Price (USD/month)	Total Price (USD)
3	Supporting Services	23	25,618.80	589,232.40
Sub-Total Price (USD)				910,632.03

Note 1: Supporting Services including but not limited to Monthly costs of security, food, maintenance of camp and offices, camp running Services, transportation vehicles and relevant services, required manpower (according to the Scope of Work), HSE equipment and services, Contractor's warehouse and workshop (if required), and ICT's services and any other required supporting facilities.

Note 2: It is notable that the total gross price of the Supporting Services shall not be exceeded more than 12% of the total gross ceiling Price of the Contract.

Note 3: It is noteworthy that the total gross price of the Mobilization shall not be exceeded more than 8% of the total gross ceiling Price of the Contract.

Note 4: Supporting Services costs shall be calculated and payable only after the Mobilization Completion phase. Any cost and expenditures before the Mobilization completion even supporting services shall be meet and considered in Mobilization costs.

Note 5: In case of withdrawal from the supply or failure to provide 10 Connex to the Company per the agreed terms and features, the total Mobilization costs will not be paid to the Contractor.



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3.2.2 Maintenance Jobs

The contractor shall carry all maintenance activities based on the scope of work for each Job outlined in Annex-1 - Facility Maintenance Job Check List and Guidelines (attached to Appendix-1) with a dedicated maintenance team. It should be mentioned that Company may, at any time, modify the periodicity and sort of task according to actual requirement during running of whole production system. The contractor has no right to make any claims regarding periodic modifications (PM changes).

Each job will be compensated by Company via a lump sum price which includes all related cost of extra manpower, equipment, tools, required consumables to perform the job. The spare parts of Company facilities of each job will be provided by Company.

3.2.2.1 Scheduled Preventative Maintenance Activities

Table 3: Estimated Works and Prices for Scheduled Preventative Maintenance Activities

Item	Discipline	Equipment/Package	Periodicity description/Interval	Estimated Work load in 2 years (A)	Unit Price Per Job (USD) (B)	Total Price (USD) (A×B)
1.	Mechanical	Diesel Power Generator (Fars Diesel)	(250 Working Hours)	220	120.63	26,538.60
2.		Diesel Power Generator (Fars Diesel)	(500 Working Hours)	220	120.63	26,538.60
3.		Diesel Power Generator (Fars Diesel)	(1500 Working Hours)	44	402.11	17,692.84
4.		Diesel Power Generator (Fars Diesel)	(8000 Working Hours)	11	804.22	8,846.42
5.		Emergency Shutdown Valves	(6 Monthly)	68	260.19	17,692.92
6.		Chemical Injection package	(6 Monthly)	136	195.14	26,539.04
7.		Manual Valves	(6 Monthly)	104	255.19	26,539.76
8.		Stone Trap	(1 Monthly)	136	195.14	26,539.04
9.		Cluster Export Pump	(6 Monthly)	8	1,105.81	8,846.48
10.		Cluster Export Pump	(24 Monthly)	2	4,423.23	8,846.46



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Item	Discipline	Equipment/Package	Periodicity description/Interval	Estimated Work load in 2 years (A)	Unit Price Per Job (USD) (B)	Total Price (USD) (A×B)
11.	Electrical	Cluster Air Compressor	(3 Monthly)	12	737.20	8,846.40
12.		Cluster Air Compressor	(12 Monthly)	4	2,211.61	8,846.44
13.		Pressure Safety Valve	(24 Monthly)	7	1,263.78	8,846.46
14.		Strainer	(3 Monthly)	8	1,105.81	8,846.48
15.		Air Dryer	(12 Monthly)	2	4,423.23	8,846.46
16.		Chain Block	(3 Monthly)	4	2,211.61	8,846.44
17.		Production Separator	(24 Monthly)	1	8,846.46	8,846.46
18.		Pig Launcher and Receiver	(12 Monthly)	25	707.72	17,693.00
19.		Service Water and Pump	(6 Monthly)	4	2,211.61	8,846.44
20.		Nardi Compressor	(250 Working Hours)	4	2,211.61	8,846.44
21.		Nardi Compressor	(500 Working Hours)	4	2,211.61	8,846.44
22.		Diesel and water pump	(6 Monthly)	48	368.60	17,692.80
23.		UPS	(3 Monthly)	176	84.16	14,812.16
24.		Electromotor Export Pump (Cluster)	(6 Monthly)	8	617.19	4,937.52
25.		Panel & Cabin (ADP-LV-JB)	(6 Monthly)	100	98.75	9,875.00
26.		Motor Diesel Power Generator	(250,500,1500,8000 Working Hours)	531	37.19	19,747.89
27.		Trans Rectifier of Cathodic Protection system	(6 Monthly)	16	308.60	4,937.60

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Item	Discipline	Equipment/Package	Periodicity description/Interval	Estimated Work load in 2 years (A)	Unit Price Per Job (USD) (B)	Total Price (USD) (A×B)
28.	Instrumentation	Lighting Equipment & Lighting Panel (6 month)	(6 Monthly)	156	94.95	14,812.20
29.		Earthing System	(12 Monthly)	50	197.50	9,875.00
30.		Capacitor Bank & Bass bar	(12 Monthly)	20	493.76	9,875.20
31.		LOW VOLTAGE TRANSFORMATOR	(6 Monthly)	2	2,468.78	4,937.56
32.		LOW VOLTAGE TRANSFORMATOR	(12 Monthly)	2	2,468.78	4,937.56
33.		Diesel and water pump panel	(6 Monthly)	48	205.73	9,875.04
34.		MOV panel	(6 Monthly)	32	270.02	8,640.64
35.		Battery	(3 Monthly)	4	1,234.39	4,937.56
36.		Battery Charger	(3 Monthly)	4	1,234.39	4,937.56
37.		Electromotor of Air Compressor	(3 Monthly)	8	617.19	4,937.52
38.		Electromotor of Air Compressor	(12 Monthly)	4	1,234.39	4,937.56
39.		Rack	(3 Monthly)	80	185.16	14,812.80
40.		LV Switchgear	(6 Monthly)	20	370.32	7,406.40
41.		Differential Pressure Transmitter	(6 Monthly)	56	107.30	6,008.80
42.		Differential Pressure Transmitter	(12 Monthly)	28	160.95	4,506.60
43.		Flow Transmitter	(6 Monthly)	28	160.95	4,506.60



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Item	Discipline	Equipment/Package	Periodicity description/Interval	Estimated Work load in 2 years (A)	Unit Price Per Job (USD) (B)	Total Price (USD) (A×B)
44.		Flow Transmitter	(12 Monthly)	14	214.60	3,004.40
45.		Level Transmitter	(6 Monthly)	84	71.53	6,008.52
46.		Level Transmitter	(12 Monthly)	42	143.07	6,008.94
47.		Pressure Transmitter	(6 Monthly)	108	83.46	9,013.68
48.		Pressure Transmitter	(12 Monthly)	54	111.28	6,009.12
49.		Temperature Transmitter	(6 Monthly)	54	111.28	6,009.12
50.		Temperature Transmitter	(12 Monthly)	27	166.91	4,506.57
51.		Hydraulic Actuator & Panel -ESDV	(6 Monthly)	92	97.97	9,013.24
52.		Level Gauge	(6 Monthly)	104	86.67	9,013.68
53.		Level Gauge	(12 Monthly)	52	115.56	6,009.12
54.		Level Switch	(6 Monthly)	2	1,502.23	3,004.46
55.		Level Switch	(12 Monthly)	2	1,502.23	3,004.46
56.		Level Transmitter DPT	(6 Monthly)	80	112.67	9,013.60
57.		Level Transmitter Radar	(6 Monthly)	16	187.78	3,004.48
58.		Pressure Gauge	(3 Monthly)	216	55.64	12,018.24
59.		Pressure Gauge	(6 Monthly)	108	111.28	12,018.24
60.		Pressure Gauge	(12 Monthly)	54	111.28	6,009.12
61.		Pressure Switch	(6 Monthly)	104	86.67	9,013.68
62.		Pressure Switch	(12 Monthly)	52	115.56	6,009.12
63.		Temperature Gauge	(3 Monthly)	208	57.78	12,018.24



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Item	Discipline	Equipment/Package	Periodicity description/Interval	Estimated Work load in 2 years (A)	Unit Price Per Job (USD) (B)	Total Price (USD) (A×B)
64.		Temperature Gauge	(12 Monthly)	104	86.67	9,013.68
65.		Temperature switch	(6 Monthly)	4	751.11	3,004.44
66.		Temperature switch	(12 Monthly)	2	1,502.23	3,004.46
67.		Wellhead Control Panel	(3 Monthly)	136	66.27	9,012.72
68.		Wellhead Control Panel	(12 Monthly)	68	88.37	6,009.16
69.		Fire and Gas System(F&G)	(3 Monthly)	216	55.64	12,018.24
70.		Fire and Gas System(F&G)	(12 Monthly)	108	83.46	9,013.68
71.		F&G Panel	(3 Monthly)	216	55.64	12,018.24
72.		Control Valve	(6 Monthly)	20	300.45	6,009.00
73.		MOV	(6 Monthly)	32	187.78	6,008.96
74.		ESD Panel	(6 Monthly)	16	187.78	3,004.48
75.		Panel (HIPPS Panel)	(6 Monthly)	68	88.37	6,009.16
76.	HVAC	Split Unit	(6 Monthly)	280	85.31	23,886.80
77.	Corrosion	Corrosion Coupon	(6 Monthly)	184	60.58	11,146.72
78.		Corrosion Probe	(6 Monthly)	200	74.31	14,862.00
79.		Insulation Joint	(3 Monthly)	320	46.44	14,860.80
80.		Anode Bed Check & survey potential measurement	(3 Monthly)	100	111.47	11,147.00
81.		Pipeline Pigging Operations	Yearly	20	185.8115	3,716.23
	Sub-Total Price (USD)					796,180.99



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3.2.2.2 Housekeeping Services

Table 4: Estimated Works and Prices for Housekeeping Services

Item	Location	Task Description	Periodicity	Quantity of Locations	Estimated Workload in two years (A)	Unit Price per Task (B)	Total Price (A×B) (USD)
1.	Well Path	Waste Collecting and Sweeping (Non industrial housekeeping) *	Every 7 days	21	2184	22.77	49,729.68
2.	Manifold and /Cluster	Waste Collecting and Sweeping (Non industrial housekeeping) *	Every 5 days	4	584	22.77	13,297.68
3.	Receiving Area	Waste Collecting and Sweeping (Non industrial housekeeping) *	Every 3 days	1	244	22.77	5,555.88
4.	LBVs	Waste Collecting and Sweeping (Non industrial housekeeping) *	If required	3	288	22.77	6,557.76
5.	Well Path	Housekeeping and Cleaning	Every one month	21	504	22.77	11,476.08
6.	Manifold and /Cluster	Housekeeping and Cleaning (Industrial housekeeping) **	Every one month	4	96	22.77	2,185.92
7.	Receiving Area	Housekeeping and Cleaning (Industrial housekeeping) **	Every one month	1	24	22.77	546.48
8.	LBVs	Housekeeping and Cleaning (Industrial housekeeping) **	If required	5	10	22.088	220.88
9.						Sub-Total Price (USD)	89,570.36

3.2.2.3 Corrective Maintenance

Table 5: Estimated Works and Prices for Corrective Maintenance Works for 2 years

Item	Discipline	Estimated Work load in 2 years (A)	Unit Price Per Task (USD) (B)	Total Price (USD) (A×B)
1.	Mechanical	550	47.05	25,877.50



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2.	Electrical	300	43.13	12,939.00
3.	Instrument	600	32.34	19,404.00
4.	HVAC	60	32.3201	1,939.21
5.	General Items	1000	4.53	4,530.00
6.	Sub-Total Price (USD)			64,689.71

3.2.3 Special Maintenance Services

Contractor shall be compensated for special maintenance services on a single lump sum basis for each unit in subject to written confirmation, Approval and acceptance by the Company. Lump sum price for each unit shall include all costs on mobilization/demobilization, equipment, personnel, consumables, material, transportation and etc.

3.2.3.1 Technical Inspection and Corrosion Protection

Table 6: Estimated Works and Prices for Technical Inspection and Corrosion Protection

Item	Task Description	Unit	Estimated Workload (RFI)* in two years (A)	Unit Price per RFI (B)	Total Price (A×B) (USD)
1.	Ultrasonic Test (Thickness measurement)	Point	1000	9.66	9,660.00
2.	Radiography Test	ID	500	6.44	3,220.00
3.	Long-Range Ultrasonic Test	Meter	100	9.66	966.00
4.	Hydro Test	Inch-Meter	1200	3.22	3,864.00
5.	Leak Test	Inch-Meter	1200	3.22	3,864.00
6.	Holiday test	Length (m)	100	6.44	644.00
7.	Surface Preparation (Sand Blasting)	M ²	100	3.22	322.00
8.	Surface Preparation (Wire Brush)	M ²	100	3.22	322.00
9.	Coating/Painting (Airless)	M ²	100	6.44	644.00
10.	Painting (Touch up)	M ²	100	3.22	322.00
11.	Fiscal Metering skid Calibration	Job	1	730.46	730.46
12.	Positive Material Identification (PMI)	Job	20	16.11	322.20



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Item	Task Description	Unit	Estimated Workload (RFI)* in two years (A)	Unit Price per RFI (B)	Total Price (A×B) (USD)
13.	Sub-Total Price (USD)				24,880.66

- RFI stands for request for inspection.

3.2.3.2 Scheduled Wellhead Maintenance Services

Table 7: Estimated Works and Prices for Scheduled Wellhead Maintenance Services

Item	Equipment	Description of Task	Periodicity	Quantity of Equipment	Estimated Workload (Tasks) in two years (A)	Unit Price per Task (B) (USD)	Total Price (A×B) (USD)
1.	Wellhead	Wellhead Maintenance Service for valves of X-mas tree (5 valves)	3 Monthly	21	126	429.49	54,115.74
2.	Wellhead	Wellhead Maintenance Service for valves of X-mas tree and annulus side valves of wellhead (totally 12 valves)	12 Monthly	21	42	429.48	18,038.16
3.	Sub-Total Price (USD)						72,153.90

3.2.3.3 Technical Support by Vendors

The daily rate includes all relevant costs, including but not limited to coordination, accommodation, food, insurance, tools, hardware and software and any other expenses necessary to meet the Company's requirements according to the related scope of work.

Table 8: Table for Vendor Support for Special Equipment

Item	Description	Vendor	Type of Order	Quantity (A)	Unit Price (USD) (B)	Total Price (USD) (A×B)
1.	LBV, HIPPS, Choke Valve, MOV, On-Off	—	Mob /Demob (Per trip)	4	136.76	547.04
			Specialist (Man Day)	24	250.72	6,017.28



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Item	Description	Vendor	Type of Order	Quantity (A)	Unit Price (USD) (B)	Total Price (USD) (A×B)
	Valve, Manual Valve, DBB Valve		Engineer (Man Day)	24	182.34	4,376.16
2.	Multiphase Flow Meter Package	—	Mob / Demob (Per trip)	2	273.51	547.02
			Specialist (Man Day)	12	501.44	6,017.28
			Engineer (Man Day)	12	364.68	4,376.16
			Mob / Demob (Per trip)	1	547.02	547.02
3.	Mobile Test Separator Package	—	Specialist (Man Day)	6	1,002.87	6,017.22
			Engineer (Man Day)	6	729.36	4,376.16
			Mob / Demob (Per trip)	2	273.51	547.02
4.	Pigging Operation	—	Specialist (Man Day)	12	501.44	6,017.28
			Engineer (Man Day)	12	364.68	4,376.16
			Mob / Demob (Per trip)	1	547.02	547.02
5.	DCS	—	Specialist (Man Day)	6	1,002.87	6,017.22
			Engineer (Man Day)	6	729.36	4,376.16
			Mob / Demob (Per trip)	1	547.02	547.02
6.	Fiscal Metering Package	—	Specialist (Man Day)	5	1,203.45	6,017.25
			Engineer (Man Day)	5	875.23	4,376.15
			Mob / Demob (Per trip)	1	547.02	547.02
7.	Wellhead Control Panel	—	Specialist (Man Day)	12	501.44	6,017.28
			Engineer (Man Day)	12	364.68	4,376.16
			Mob / Demob (Per trip)	2	273.51	547.02
8.	Coriolis, Control Valve	—	Specialist (Man Day)	12	501.44	6,017.28
			Engineer (Man Day)	12	364.68	4,376.16
			Mob / Demob (Per trip)	2	273.51	547.02
9.	Safety/Relief Valves	—	Specialist (Man Day)	12	501.44	6,017.28
			Engineer (Man Day)	12	364.68	4,376.16
			Mob / Demob (Per trip)	2	273.51	547.02
10.	Emergency Diesel Generator	—	Specialist (Man Day)	20	300.86	6,017.20
			Engineer (Man Day)	20	218.81	4,376.20
			Mob / Demob (Per trip)	2	54.70	109.40
11.	UPS	—	Specialist (Man Day)	12	100.29	1,203.48
			Engineer (Man Day)	12	72.94	875.28

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Item	Description	Vendor	Type of Order	Quantity (A)	Unit Price (USD) (B)	Total Price (USD) (A×B)
12.	AC UPS & Batteries, DC Charger & Batteries		Mob /Demob (Per trip)	2	54.70	109.40
			Specialist (Man Day)	12	100.29	1,203.48
			Engineer (Man Day)	12	72.94	875.28
13.	F&G System and Devices		Mob /Demob (Per trip)	3	182.34	547.02
			Specialist (Man Day)	24	250.72	6,017.28
			Engineer (Man Day)	24	182.34	4,376.16
14.	Connex		Mob /Demob (Per trip)	1	54.70	54.70
			Specialist (Man Day)	10	60.17	601.70
			Engineer (Man Day)	10	43.76	437.60
15.	Flow Transmitter (DP)		Mob /Demob (Per trip)	1	547.02	547.02
			Specialist (Man Day)	10	601.72	6,017.20
			Engineer (Man Day)	10	437.62	4,376.20
16.	Asphaltene and Corrosion Inhibitor Package, Injection Nozzle		Mob /Demob (Per trip)	1	547.02	547.02
			Specialist (Man Day)	12	501.44	6,017.28
			Engineer (Man Day)	12	364.68	4,376.16
17.	Flame Arrestor		Mob /Demob (Per trip)	1	109.40	109.40
			Specialist (Man Day)	6	200.57	1,203.42
			Engineer (Man Day)	6	145.87	875.22
18.	Insulating Joint, Stone Trap		Mob /Demob (Per trip)	1	109.40	109.40
			Specialist (Man Day)	6	200.57	1,203.42
			Engineer (Man Day)	6	145.87	875.22
19.	Manual Valve		Mob /Demob (Per trip)	2	54.70	109.40
			Specialist (Man Day)	12	100.29	1,203.23
			Engineer (Man Day)	12	72.94	875.28
			Sub-Total Price (USD)			154,260.07

3.2.3.4 Special Repair of Valves

Table 9: Estimated Works and Prices for Ball Valves Repair

Row	Description	Ball Valve 7 1/16"	Ball valve 4 1/16"	Ball Valve 6" 900#	Ball Valve 18" & 16" & 12"	Total Price (USD)
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		Qty	Unit Price (USD)							
1.	Opening and closing valves	8	41.08	12	26.60	8	48.88	10	79.54	1,834.28
2.	Servicing and cleaning	8	41.08	12	26.60	8	48.88	10	79.54	1,834.28
3.	Repairing valve body	2	41.08	4	26.60	2	48.88	3	79.54	524.94
4.	Replacing ball	2	41.08	4	26.60	2	48.88	3	79.54	524.94
5.	Repairing ball	6	41.08	8	26.60	6	48.88	7	79.54	1,309.34
6.	Coating ball (ENP)	6	41.08	8	26.60	6	48.88	7	79.54	1,309.34
7.	Coating ball (TC)	6	41.08	8	26.60	6	48.88	7	79.54	1,309.34
8.	Coating ball (HF)	6	41.08	8	26.60	6	48.88	7	79.54	1,309.34
9.	Replacing seat	2	41.08	4	26.60	2	48.88	3	79.54	524.94
10.	Repairing seat and installing Peek	6	41.08	8	26.60	8	48.88	7	79.54	1,407.10
11.	Replacing body gasket	2	41.08	12	26.60	8	48.88	10	79.54	1,587.80
12.	Replacing gland packing	8	41.08	12	26.60	8	48.88	10	79.54	1,834.28
13.	Replacing seat packing or gasket	8	41.08	12	26.60	8	48.88	10	79.54	1,834.28
14.	Replacing seal kit	8	41.08	12	26.60	8	48.88	10	79.54	1,834.28
15.	Repairing seal kit	8	41.08	12	26.60	8	48.88	10	79.54	1,834.28
16.	Replacing Viton O-ring	8	41.08	12	26.60	8	48.88	10	79.54	1,834.28
17.	Repairing flange facing	8	41.08	12	26.60	8	48.88	10	79.54	1,834.28
18.	Repairing gear box	8	41.08	12	26.60	8	48.88	10	79.54	1,834.28
19.	Hydrotest (body, seat, back seat)	8	41.08	12	26.60	8	48.88	10	79.54	1,834.28
20.	Gas test (body, seat, back seat)	8	41.08	12	26.60	8	48.88	10	79.54	1,834.28
21.	Greasing gear box	8	41.08	12	26.60	8	48.88	10	79.54	1,834.28
22.	Greasing valve	8	41.08	12	26.60	8	48.88	10	79.54	1,834.28
23.	Replacing ½" vent and drain	8	41.08	12	26.60	8	48.88	10	79.54	1,834.28
24.	Replacing ½" grease connector	8	41.08	12	26.60	8	48.88	10	79.51	1,833.98
25.									Sub-Total Price (USD)	37,320.98

Table 10: Estimated Works and Prices for Double Block and Bleed Valves Repair

Row	Description	DBB 2.1/16		DBB 2" 900#		Total Price (USD)
		Qty	Unit Price (USD)	Qty	Unit Price (USD)	
1.	Opening and closing valves	14	64.21	16	64.21	1,926.30
2.	Servicing and cleaning	14	64.21	16	64.21	1,926.30



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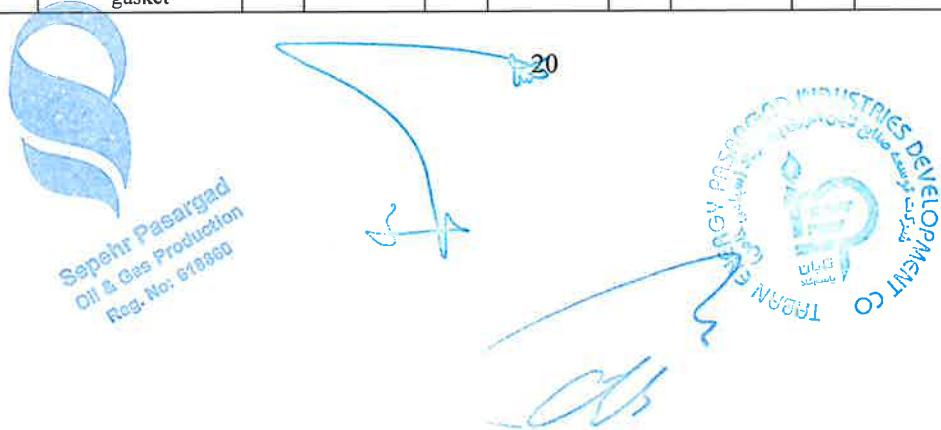
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Row	Description	DBB 2.1/16		DBB 2" 900#		Total Price (USD)
		Qty	Unit Price (USD)	Qty	Unit Price (USD)	
3.	Repairing valve body	5	64.21	5	64.21	642.10
4.	Replacing ball	5	64.21	5	64.21	642.10
5.	Repairing ball	9	64.21	11	64.21	1,284.20
6.	Coating ball (ENP)	9	64.21	11	64.21	1,284.20
7.	Coating ball (TC)	9	64.21	11	64.21	1,284.20
8.	Coating ball (HF)	9	64.21	11	64.21	1,284.20
9.	Replacing seat	5	64.21	5	64.21	642.10
10.	Repairing seat and installing Peek	14	64.21	16	64.21	1,926.30
11.	Replacing body gasket	14	64.21	16	64.21	1,926.30
12.	Replacing gland packing	14	64.21	16	64.21	1,926.30
13.	Replacing seat packing or gasket	14	64.21	16	64.21	1,926.30
14.	Replacing seal kit	14	64.21	16	64.21	1,926.30
15.	Repairing seal kit	14	64.21	16	64.21	1,926.30
16.	Replacing Viton O-ring	14	64.21	16	64.21	1,926.30
17.	Repairing flange facing	14	64.21	16	64.21	1,926.30
18.	Repairing gear box	14	64.21	16	64.21	1,926.30
19.	Hydrotest (body, seat, back seat)	14	64.21	16	64.21	1,926.30
20.	Gas test (body, seat, back seat)	14	64.21	16	64.21	1,926.30
21.	Greasing gear box	14	64.21	16	64.21	1,926.30
22.	Greasing valve	14	64.21	16	64.21	1,926.30
23.	Replacing ½" vent and drain	14	64.21	16	64.21	1,926.30
24.	Replacing ½" grease connector	14	64.21	16	64.138	1,925.15
25.				Sub-Total Price (USD)		39,809.05

Table 11: Estimated Works and Prices for Gate Valves Repair

Row	Description	Gate Valve 8"		Gate valve 7.1/16"		Gate Valve 4" 300#		Gate Valve 3/4 " 1500#		Total Price (USD)
		Qty	Unit Price (USD)	Qty	Unit Price (USD)	Qty	Unit Price (USD)	Qty	Unit Price (USD)	
1.	Opening and closing valves	4	77.27	8	77.27	8	77.27	8	77.27	2,163.56
2.	Servicing and cleaning	4	77.27	8	77.27	8	77.27	8	77.27	2,163.56
3.	Repairing valve body	1	77.27	2	77.27	2	77.27	2	77.27	540.89
4.	Replacing Disk	1	77.27	2	77.27	2	77.27	2	77.27	540.89
5.	Repairing Disk	3	77.27	6	77.27	6	77.27	6	77.27	1,622.67
6.	Replacing seat	1	77.27	2	77.27	2	77.27	2	77.27	540.89
7.	Repairing seat and installing Peek	3	77.27	6	77.27	6	77.27	6	77.27	1,622.67
8.	Replacing body gasket	4	77.27	8	77.27	8	77.27	8	77.27	2,163.56

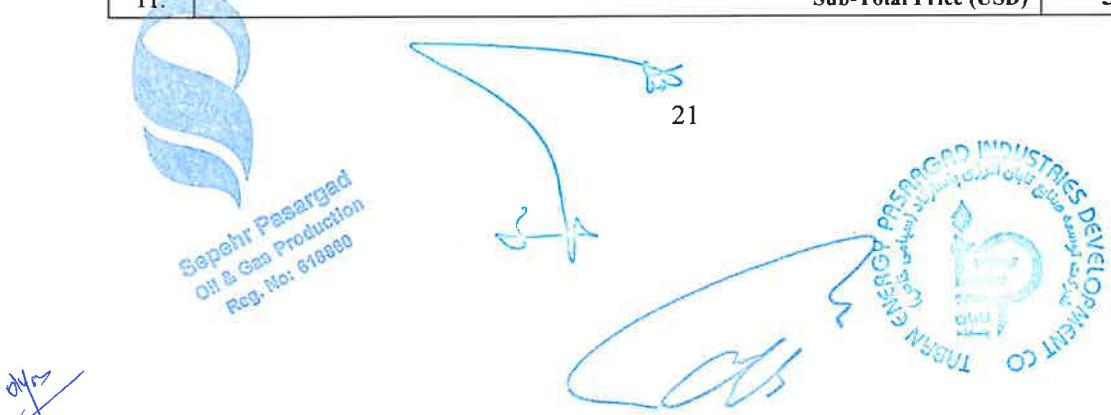


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9.	Replacing gland packing	4	77.27	8	77.27	8	77.27	8	77.27	2,163.56
10.	Replacing seat packing or gasket	4	77.27	8	77.27	8	77.27	8	77.27	2,163.56
11.	Replacing seal kit	4	77.27	8	77.27	8	77.27	8	77.27	2,163.56
12.	Repairing seal kit	4	77.27	8	77.27	8	77.27	8	77.27	2,163.56
13.	Replacing Viton O-ring	4	77.27	8	77.27	8	77.27	8	77.27	2,163.56
14.	Replacing Bonnet Gasket	4	77.27	8	77.27	8	77.27	8	77.27	2,163.56
15.	Repairing flange facing	4	77.27	8	77.27	8	77.27	8	77.27	2,163.56
16.	Hydrotest (body, seat, back seat)	4	77.27	8	77.27	8	77.27	8	77.27	2,163.56
17.	Gas test (body, seat, back seat)	4	77.27	8	77.27	8	77.27	8	77.27	2,163.56
18.	Greasing valve	4	77.27	8	77.27	8	77.27	8	77.27	2,163.56
19.	Replacing ½" vent and drain	4	77.27	8	77.27	8	77.27	8	77.27	2,163.56
20.	Replacing ½" grease connector	4	77.27	8	77.27	8	77.27	8	77.216	2,163.13
21.									Sub-Total Price (USD)	37,320.98

Table 12: Estimated Works and Prices for Check Valves Repair

Row	Description	Check Valve 6"		Check Valve 4"		Total Price (USD)
		Qty	Unit Price (USD)	Qty	Unit Price (USD)	
1.	Opening and closing valves	4	565.47	4	565.47	4,523.76
2.	Servicing and cleaning	4	565.47	4	565.47	4,523.76
3.	Repairing valve body	1	565.47	1	565.47	1,130.94
4.	Replacing Flapper	1	565.47	1	565.47	1,130.94
5.	Repairing Flapper	3	565.47	3	565.47	3,392.82
6.	Replacing Bonnet Gasket	4	565.47	4	565.47	4,523.76
7.	Repairing flange facing	4	565.47	4	565.47	4,523.76
8.	Hydrotest (body, seat, back seat)	4	565.47	4	565.47	4,523.76
9.	Gas test (body, seat, back seat)	4	565.47	4	565.47	4,523.76
10.	Replacing ½" vent and drain	4	565.47	4	565.46	4,523.72
11.						Sub-Total Price (USD)
						37,320.98



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3.2.3.5 Special Repair of Actuator

Table 13: Estimated Works and Prices for ESDV Actuator Repairs

Row	Description	Actuator 18"		Actuator 16"		Actuator 12"		Actuator 6"		Total Price (USD)
		Qty	Unit Price (USD)	Qty	Unit Price (USD)	Qty	Unit Price (USD)	Qty	Unit Price (USD)	
1.	Opening and closing Actuator	2	492.43	2	393.94	6	114.90	8	61.55	2,954.54
2.	Servicing and cleaning	2	492.43	2	393.94	6	114.90	8	61.55	2,954.54
3.	Repairing Jack body	2	492.43	2	393.94	6	114.90	8	61.55	2,954.54
4.	Repairing gear box	2	492.43	2	393.94	6	114.90	8	61.55	2,954.54
5.	Replacing Jack Packing	2	492.43	2	393.94	6	114.90	8	61.55	2,954.54
6.	Replacing Jack Seal Kit	2	492.43	2	393.94	6	114.90	8	61.55	2,954.54
7.	Replacing Silencer	2	492.43	2	393.94	6	114.90	8	61.55	2,954.54
8.	Replacing Connectors	2	492.43	2	393.94	6	114.90	8	61.55	2,954.54
9.	Replacing Stem Packing	2	492.43	2	393.94	6	114.90	8	61.55	2,954.54
10.	Replacing Positioner Micro Switch	2	492.43	2	393.94	6	114.90	8	61.55	2,954.54
11.	Replacing Jack Spring	2	492.43	2	393.94	6	114.90	8	61.55	2,954.54
12.	Greasing gear box	2	492.43	2	393.94	6	114.90	8	61.55	2,954.54
13.	Replacing Jack Hydraulic Oil	2	492.43	2	393.94	6	114.90	8	61.55	2,954.54
14.	Repairing of Hydraulic Pump in HPU Panel	2	492.43	2	393.94	6	114.90	8	61.55	2,954.54
15.	Repairing Electro Motor	2	492.43	2	393.94	6	114.90	8	61.55	2,954.54
16.	Replacing of Solenoid Valve	2	492.43	2	393.94	6	114.90	8	61.626	2,955.15
17.									Sub-Total Price (USD)	47,273.25



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3.2.3.6 Special Calibration & Repair of Safety Valve & RTV & Relief Valve

Table 14: Estimated Works and Prices for Calibration & Repair of Safety Valve & RTV & Relief Valve

Row	Description	Size 1" X 3/4"		Size 2"X3"		Size 3"X4"		Size 4"X6"		Total Price (USD)
		Qty	Unit Price (USD)	Qty	Unit Price (USD)	Qty	Unit Price (USD)	Qty	Unit Price (USD)	
1.	Cleaning	4	577.59	4	866.38	4	1,155.17	4	1,443.97	16,172.44
2.	Servicing	4	577.59	4	866.38	4	1,155.17	4	1,443.97	16,172.44
3.	Lubrication	4	577.59	4	866.38	4	1,155.17	4	1,443.97	16,172.44
4.	Measuring seat and plug	4	577.59	4	866.38	4	1,155.17	4	1,443.97	16,172.44
5.	Calibration and adjustment	4	577.59	4	866.38	4	1,155.17	4	1,443.97	16,172.44
6.	Performance testing	4	577.59	4	866.38	4	1,155.17	4	1,443.95	16,172.36
7.										Sub-Total Price (USD) 97,034.56

3.2.3.7 Supplying Power by Diesel Generator

Table 15: Estimated Work and Prices for Diesel Generator Provision

Row	Location	KVA	QTY. (A)	Duration (Months) (B)	Unit Price (USD) (C)	Total Price (USD) (A*B*C)
1.	Wells	50	24	24	748.29	431,015.04
2.	Manifolds	50	5	24	748.29	89,794.80
3.	RA Workshop and Warehouse	100	2	24	1,247.15	59,863.20
4.	RA Control Room	250	2	24	1,995.44	95,781.12
5.	RA Fire Fighting	500	2	24	2,494.309	119,726.83
Sub-Total Price (USD)						796,180.99

3.2.4 Other Services

3.2.4.1 Required manpower for Other Services

1. Manpower shall be charged for Contractor as per Company Request.
2. Manpower costs for the Work includes but are not limited to all of costs including mobilization and demobilization, accommodations, food, related tasks, manpower, salaries, logistic, personnel equipment and PPE.
3. The Contractor personnel operation rate on daily basis shall apply when Contractor personnel arrive

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on working area designated by Company and start to carry out work designated by Company.

4. Company may deduct the manpower cost using the applicable rate for the manpower as specified in this Contract, for any time that a position is not filled by a fully trained, certified, experienced person qualified and competent to perform the required duties of that position till these personnel has been replaced and qualified.
5. Contractor shall provide transportation and haulage of Contractor Personnel to and from working area designated by Company. In this respect the costs of transportation, fuel, haulage and travelling time shall be deemed to be included in the Rates. No separate payment shall be made by Company to Contractor for such transportation costs.

Table 16: Estimated Works and Prices for Required Manpower for Other Services

Item	Manpower as Per Requirement of the Contract	Quantity (A)	Day (B)	Unit Price (C) (USD)	Total Price (A×B×C) (USD)
1	Maintenance Foreman	1	80	31.32	2,505.60
2	HSE Officer	1	50	27.84	1,392.00
3	Civil Expert	1	30	20.88	626.40
4	Electrical Maintenance Technician	1	80	34.80	2,784.00
5	HVAC Maintenance Technician	1	50	34.80	1,740.00
6	Fixed Mechanical Maintenance Technician	1	50	31.32	1,566.00
7	Rotary Mechanical Maintenance Technician	1	50	34.80	1,740.00
8	Instrumentation Maintenance Technician	1	50	34.80	1,740.00
9	Corrosion Technician	1	50	34.80	1,740.00
10	Piping Technician	1	50	31.32	1,566.00
11	House Keeper	1	70	13.92	974.40
12	Worker	1	700	17.40	12,180.00
13	Wellhead Technician	1	70	31.32	2,192.40
14	Workshop Technician	1	70	31.32	2,192.40
15	Scaffolder	1	100	17.40	1,740.00

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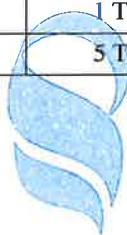
16	Painter	1	30	17.40	522.00
17	Welder	1	70	31.32	2,192.40
18	Argon Welder	1	30	34.79	1,043.70
19	Sandblast Operator	1	30	24.35	730.50
20	Rigger	1	50	17.39	869.50
21	form worker	1	30	17.39	521.70
22	Plumber	1	30	20.87	626.10
23	Mason	1	20	20.87	417.40
24	Rebar Worker	1	20	17.389	347.78
25	Surveyor Engineer	1	30	27.83	834.90
Sub-Total Price (USD)					44,785.18

3.2.4.2 Special Equipment Provision

1. Contractor shall be compensated for provision of special equipment based on Company Request.
2. Mobilization and demobilization and all items including special equipment that are not mentioned in below tables, are deemed included in "Unit Price" (s) of each item.
3. Special Equipment costs for the Work includes but are not limited to all of costs including related tasks, fuel, driver, required PPE, maintenance, repair, certification, salaries, mobilization and demobilization.
4. Special Equipment operation rate on daily basis shall apply when Contractor equipment arrives on working area designated by Company and start to carry out work designated by Company. Any hours work less than 6 hours work shall be paid up to half daily rate.

Table 17: Estimated Works and Prices for Special Equipment Provision

Item	Special Equipment as Per Requirement of the Contract	Quantity (Equipment) (A)	Duration (Day) (B)	Unit Price (USD/ Day/ Quantity) (C)	Total Price (USD) (A×B×C)
1.	Air Compressor 250 cfm	1	20	389.80	7,796.00
2.	Air Compressor 60 cfm	1	20	115.40	2,308.00
3.	Pipe cold cutting equipment (2"- 24")	1	40	83.7542	3,350.17
4.	1 Ton chain pulley block	1	20	19.86	397.20
5.	5 Ton chain pulley block	1	20	39.72	794.40



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Item	Special Equipment as Per Requirement of the Contract	Quantity (Equipment) (A)	Duration (Day) (B)	Unit Price (USD/ Day/ Quantity) (C)	Total Price (USD) (A×B×C)
6.	Industrial Jet wash machine with portable water tank (hot water)	1	120	234.64	28,156.80
7.	Diesel Generator 10 KVA 3 phases	1	150	32.21	4,831.50
8.	Portable welding machine	1	100	79.47	7,947.00
9.	450-amp welding set (electrical)	1	100	79.47	7,947.00
10.	Battery Tester	1	40	39.73	1,589.20
11.	Magnetic Vertical Drilling Machine	1	30	39.73	1,191.90
12.	Pipe hot cutting equipment	1	30	79.47	2,384.10
13.	Airless paint set with two guns and hose	1	50	1,006.25	50,312.50
14.	Grit blasting equipment include grit	1	50	485.41	24,270.50
15.	Sandblast machine	1	50	974.57	48,728.50
16.	scaffolding pipe with Clamp and timber (m3)	50	50	19.87	49,675.00
17.	30-ton hydraulic jack	1	50	27.92	1,396.00
18.	Hi-Force Hydraulic Torque Wrenches	1	150	63.90	9,585.00
19.	Megger Tester	1	50	107.39	5,369.50
20.	Retriever Class 10000 2 1/16" flange Type	1	50	107.39	5,369.50
21.	Retriever Class 900 2" Flange type	1	50	107.39	5,369.50
22.	HART 475	1	50	107.39	5,369.50
23.	Comparator 0-700 BAR Crystal	1	50	107.39	5,369.50
24.	hydraulic hand pump 0-700 barg	1	50	26.84	1,342.00
25.	Clamp multimeter/ multimeter	2	50	26.84	2,684.00
26.	Half-cell Cu/CuSO4	2	60	107.38	12,885.60
27.	Hi-Pot	1	40	53.70	2,148.00
	Sub-Total Price (USD)				298,567.87


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3.2.4.3 Machinery Provision

1. Contractor shall be compensated for provision of required machinery on Company Request.
2. Driver, Mobilization and demobilization and all items including machinery that are not mentioned in below tables, are deemed included in "Unit Price" (s) of each item.
3. Machinery costs for the Work includes but are not limited to all of costs including related tasks, fuel, driver, required PPE, maintenance, repair, certification, salaries, mobilization and demobilization.
4. Machinery operation rate on daily basis shall apply when Contractor equipment arrives on working area designated by Company and start to carry out work designated by Company. Any hours work less than 6 hours work shall be paid up to half daily rate.

Table 18: Estimated Works and Prices for Machinery Provision (Monthly Requirement)

Item	Machinery Description	Quantity (Machinery) (A)	Duration (Month) (B)	Unit Price (USD/ Month/ Machinery) (C)	Total Price (USD) (A×B×C)
1.	Septic Tank Pumper Truck- 30000 lit	1	24	3,346.53	80,316.72
2.	Boom Truck 5 ton	1	24	2,251.30	54,031.20
3.	Boom Truck 10 ton	1	24	5,780.36	138,728.64
4.	Lift Truck 7 ton	1	24	2,068.76	49,650.24
5.	Lift Truck 5 ton	1	24	1,825.38	43,809.12
6.	Crane Forklift 30 ton	1	24	6,571.3686	157,712.85
7.	Vacuum Truck equipped with pump - 5000 liters	2	24	1,855.80	89,078.40
8.	Mobile Potable Water Tanker 30000 liters with Pump	2	24	3,194.41	153,331.68
9.	Mobile Service Water Tanker 30000 liters with Pump	1	24	3,194.41	76,665.84
10.	Mobile Diesel Tanker 8000 liters with Pump	2	24	2,065.72	99,154.56
Sub-Total Price (USD)					942,479.25



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Table 19: Estimated Works and Prices for Per Case Requirement (Daily) of Machinery

Item	Heavy Machinery as Per Requirement of the Contract	Quantity (Machinery) (A)	Estimated Workload in two years (Day) (B)	Unit Price (USD/ Day/ Machinery) (C)	Total Price (USD) (A×B×C)
1.	Vacuum Truck - 5000 liters	1	30	40.33	1,209.90
2.	Lift Truck 3 ton	1	80	25.67	2,053.60
3.	Boom Truck 3 ton	1	30	51.33	1,539.90
4.	Boom Truck 5 ton	1	10	63.90	639.00
5.	Boom Truck 10 ton	1	30	102.66	3,079.80
6.	Boom Truck 15 ton	1	30	94.28	2,828.40
7.	Crane 25 ton	1	30	159.23	4,776.90
8.	Cat 235 Excavator or equivalent	1	50	118.90	5,945.00
9.	Cat 950-wheel type loader or equivalent	1	50	189.09	9,454.50
10.	Backhoe loader	1	120	102.66	12,319.20
11.	Cat 751 pipe layer or equivalent	1	20	96.38	1,927.60
12.	10 Ton Vibratory Roller	1	40	90.61	3,624.40
13.	Pedestrian Roller	1	40	12.05	482.00
14.	Plate Compactor	1	40	4.19	167.60
15.	Core drilling Machine	1	40	67.57	2,702.80
16.	Concrete Mixer 1.5 m ³	1	30	8.38	251.40
17.	Dump Truck 10 ton	1	100	75.42	7,542.00
18.	Dump Truck 15 ton	1	100	78.04	7,804.00
19.	Dump Truck 20 ton	1	30	63.38	1,901.40
20.	Low-bed Trailer	1	60	86.95	5,217.00
21.	Long-bed Trailer	1	30	101.61	3,048.30
22.	Flatbed Truck (5 ton)	1	20	66.00	1,320.00
23.	Flatbed Truck (10 ton)	1	20	75.42	1,508.40



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Item	Heavy Machinery as Per Requirement of the Contract	Quantity (Machinery) (A)	Estimated Workload in two years (Day) (B)	Unit Price (USD/ Day/ Machinery) (C)	Total Price (USD) (A×B×C)
24.	Flatbed Truck (15 ton)	1	20	86.95	1,739.00
25.	Flatbed Truck (30 ton)	1	100	130.95	13,095.00
26.	Crane 50 ton	1	30	363.50	10,905.00
27.	Overhead Line Bucket Truck	1	30	52.90	1,587.00
28.	Mobile Water Tanker 10000 liters with Pump	1	30	53.95	1,618.50
29.	Mobile Diesel Tanker 8000 liters with Pump	1	30	53.95	1,618.50
30.	Motor Grader 9 ton	1	80	98.47	7,877.60
31.	Motor Grader 12 ton	1	50	105.80	5,290.00
32.	Asphalt Finisher Machine	1	40	200.08	8,003.20
33.	Pneumatic Roller (Asphalt Compactor)	1	60	72.81	4,368.60
34.	Tandem Vibratory Rollers	1	40	90.61	3,624.40
35.	Tar Pouring Machine	1	20	129.93	2,598.60
36.	Skid steer loader (Bobcat)	1	100	44.5209	4,452.09
37.	Concrete Pump	1	180	105.80	19,044.00
38.	Diesel Pump	1	180	35.00	6,300.00
39.	Bore hole Drilling Machine Rotary	1	10	70.00	700.00
Sub-Total Price (USD)					174,164.59

3.2.5 Procurement Services

All material and consumable prices shall include but not be limited to administration, marketing, coordination, financing, procurement services and delivery of materials and consumables to the location specified by the Company (e.g., storage warehouse or site location), including freight charges, insurance, transportation, and any other related expenses.



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No re-stocking charge and disposal cost of non-reusable materials and consumables are applied for the following items.

If Company request any materials or services that are not specified in related tables, Contractor is obligated to obtain at least three valid, official sealed quotations under the supervision of Company's representatives and bind an agreement with the lowest price proposal. The approved material, or services shall be provided as per the Company's instruction and Call-off order. The pure and approved prices will be compensated with 15% overhead to the Contractor.

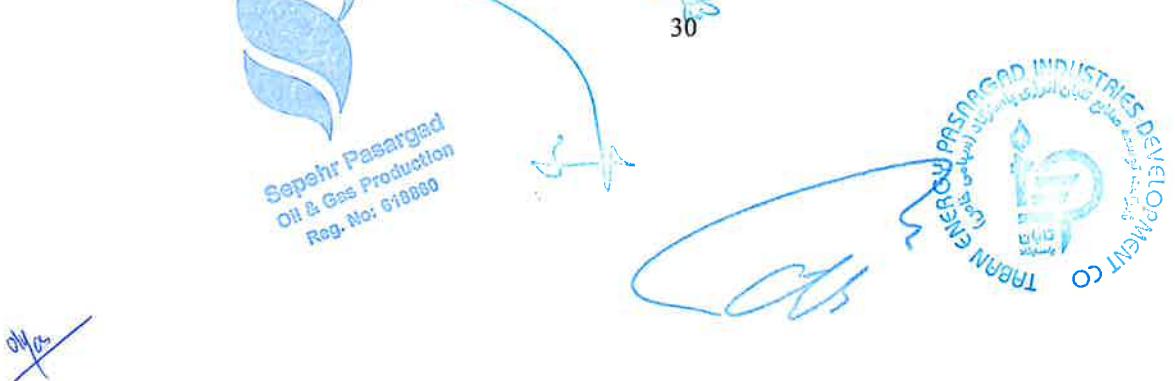
If services are performed on-site, all operational steps must be carried out in accordance with standards and under the supervision and approval of the Company's inspector as per related ITP and Procedures. In the case of outsourcing, the Sub-contractor and its location must be approved by the Company, and inspections of the operations must be conducted at that site.

For the Iron material, if the prices got scalation more than 30% of the fix prices at the beginning of the Contract, Contractor shall achieve relevant quotations as specified in the Contract terms and Conditions.

Central Bank of Iran (CBI) annual exchange rate is the basis for the evaluation of the Iron materials.

Table 20: Estimated Works and Prices for Laboratory Consumables

Item	Item Description	Unit	Quantity (A)	Unit Price (USD/Unit) (B)	Total Price (USD) (A×B)
1.	Nitrile gloves	Pack (5 Ea.)	70	3.45	241.50
2.	Safety protection Eye glasses	Ea.	25	3.45	86.25
3.	Rag	Roll (50 m)	35	9.21	322.35
4.	Acid Protection gown	Ea.	35	3.45	120.75
5.	label for glass bottles	Pack	35	3.45	120.75
6.	Toluene AR (Merck)	Liter	175	13.81	2,416.75
7.	Xylene AR (Merck)	Liter	105	12.66	1,329.30
8.	butanol AR (Merck)	Liter	140	37.99	5,318.60
9.	Methanol AR (Merck)	Liter	35	10.36	362.60
10.	Nitric Acid AR (Merck)	Liter	35	12.66	443.10
11.	Potassium Thiocyanate AR (Merck)	gr	70	44.89	3,142.30
12.	Ethyl alcohol AR (Merck)	Liter	50	12.66	633.00
13.	Naphtha AR (Merck)	Liter	35	94.39	3,303.65
14.	N-heptane AR (Merck)	Liter	35	27.63	967.05



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Item	Item Description	Unit	Quantity (A)	Unit Price (USD/Unit) (B)	Total Price (USD) (A×B)
15.	N-hexane AR (Merck)	Liter	35	33.38	1,168.30
16.	potassium iodide AR (Merck)	gr	70	0.58	40.60
17.	Silver Nitrate AR (Merck)	gr	70	3.45	241.50
18.	Acid AR (Merck)	Liter	17	27.63	469.71
19.	Borax (Di-sodium tetraborate) AR (Merck)	gr	175	1.15	201.25
20.	Iodine (Merck)	gr	105	1.15	120.75
21.	Sodium Thiosulfate (Merck)	gr	70	1.15	80.50
22.	Starch (Merck)	gr	70	1.15	80.50
23.	Potassium chromate (Merck)	gr	70	1.15	80.50
24.	Ferric Alum (Merck)	kg	3	42.59	127.77
25.	Acid (H2SO4) (Merck)	Liter	17	17.27	293.59
26.	ISO-Amyl Alcohol (Merck)	Liter	17.5	20.72	362.60
27.	Lead Acetate paper (Merck)	pack	3.5	56.40	197.40
28.	Acetone (Local)	Liter	70	3.45	241.50
29.	Ethanol (Local Manufactured for washing)	Liter	175	12.66	2,215.50
30.	Xylene (local)	Liter	350	12.66	4,431.00
31.	Automatic Burette Brown 25 ml	Ea.	1	211.80	211.80
32.	Automatic Burette Brown 50 ml	Ea.	1	211.80	211.80
33.	Automatic Burette Brown 100 ml	Ea.	1	211.80	211.80
34.	Automatic Burette White 25 ml	Ea.	1	130.07	130.07
35.	Automatic Burette White 50 ml	Ea.	1	130.07	130.07
36.	Automatic Burette White 100 ml	Ea.	1	130.07	130.07
37.	PH Paper	Pack	20	10.36	207.20
38.	Glass Beaker 25 ml	Ea.	2	2.30	4.60
39.	Glass Beaker 50 ml	Ea.	2	2.30	4.60
40.	Glass Beaker 100 ml	Ea.	2	2.30	4.60
41.	Glass Beaker 250 ml	Ea.	2	4.60	9.20
42.	Glass Beaker 500 ml	Ea.	2	5.76	11.52
43.	Glass Beaker 1000 ml	Ea.	1	6.91	6.91
44.	Glass Beaker 2000 ml	Ea.	1	10.36	10.36
45.	Automatic Pipette 1 ml	Ea.	2	12.66	25.32
46.	Automatic Pipette 2 ml	Ea.	2	12.66	25.32



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Item	Item Description	Unit	Quantity (A)	Unit Price (USD/ Unit) (B)	Total Price (USD) (A×B)
47.	Automatic Pipette 5 ml	Ea.	2	12.66	25.32
48.	Automatic Pipette 10 ml	Ea.	2	12.66	25.32
49.	Automatic Pipette 20 ml	Ea.	2	12.66	25.32
50.	Brown Burette 25ml- Grade A with Silicone Valve	Ea.	1	59.86	59.86
51.	Brown Burette 50 ml- Grade A with Silicone Valve	Ea.	1	59.86	59.86
52.	Brown Burette 100 ml- Grade A with Silicone Valve	Ea.	1	59.86	59.86
53.	White Burette 25ml- Grade A with Silicone Valve	Ea.	1	35.68	35.68
54.	White Burette 50 ml- Grade A with Silicone Valve	Ea.	1	35.68	35.68
55.	White Burette 100 ml- Grade A with Silicone Valve	Ea.	1	37.99	37.99
56.	Titration Stand	Ea.	6	9.21	55.26
57.	Butterfly Clip	Ea.	8	4.60	36.80
58.	Test Tubes small size	Set	1	1.15	1.15
59.	Test Tubes large size	Set	1	1.15	1.15
60.	Test Tubes extra large	Set	1	1.15	1.15
61.	Graduated Cylinder 10 ml	Ea.	2	8.06	16.12
62.	Graduated Cylinder 25 ml	Ea.	2	8.06	16.12
63.	Graduated Cylinder 50 ml	Ea.	2	12.66	25.32
64.	Graduated Cylinder 100 ml	Ea.	2	12.66	25.32
65.	Graduated Cylinder 250 ml	Ea.	2	20.72	41.44
66.	Graduated Cylinder 500 ml	Ea.	1	23.02	23.02
67.	Graduated Cylinder 1000 ml	Ea.	1	35.68	35.68
68.	Graduated Cylinder 2000 ml	Ea.	1	71.37	71.37
69.	Graduated Cylinder 25 ml with stopper (Cap)	Ea.	2	17.27	34.54
70.	Graduated Cylinder 50 ml with stopper (Cap)	Ea.	2	20.72	41.44
71.	Graduated Cylinder 100 ml with stopper (Cap)	Ea.	2	29.93	59.86
72.	Graduated Cylinder 250 ml with stopper (Cap)	Ea.	2	37.99	75.98
73.	Volumetric Flask 50 ml	Ea.	2	12.66	25.32
74.	Volumetric Flask 100 ml	Ea.	2	12.66	25.32

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TABAN GROUP INDUSTRIES DEVELOPMENT CO
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Item	Item Description	Unit	Quantity (A)	Unit Price (USD/ Unit) (B)	Total Price (USD) (A×B)
75.	Volumetric Flask 250 ml	Ea.	2	18.42	36.84
76.	Volumetric Flask 500 ml	Ea.	1	23.02	23.02
77.	Volumetric Flask 1000 ml	Ea.	1	35.68	35.68
78.	Volumetric Flask 2000 ml	Ea.	1	47.19	47.19
79.	Erlenmeyer 10 ml	Ea.	1	3.45	3.45
80.	Erlenmeyer 25 ml	Ea.	1	3.45	3.45
81.	Erlenmeyer 50 ml	Ea.	1	3.45	3.45
82.	Erlenmeyer 100 ml	Ea.	1	3.45	3.45
83.	Erlenmeyer 150 ml	Ea.	1	4.60	4.60
84.	Erlenmeyer 250 ml	Ea.	1	4.60	4.60
85.	Erlenmeyer 500 ml	Ea.	1	5.76	5.76
86.	Syringe 5 ml	Ea.	2	11.51	23.02
87.	Syringe 10 ml	Ea.	2	11.51	23.02
88.	Filter paper 8 micron	Pack	2	27.63	55.26
89.	Filter paper 20 micron	Pack	2	27.63	55.26
90.	Filter paper 16 micron	Pack	2	27.63	55.26
91.	Glass Funnel 8 cm	Ea.	2	2.30	4.60
92.	Glass Funnel 10 cm	Ea.	2	2.30	4.60
93.	Glass Funnel 12 cm	Ea.	2	3.475	6.95
94.	Glass Bottle 100 ml	Ea.	20	5.76	115.20
95.	Glass Bottle 500 ml	Ea.	20	8.06	161.20
96.	Glass Bottle 1000 ml	Ea.	20	11.51	230.20
97.	Glass Bottle 2000 ml	Ea.	20	23.15	463.00
98.	Sub-Total Price (USD)				32,842.47



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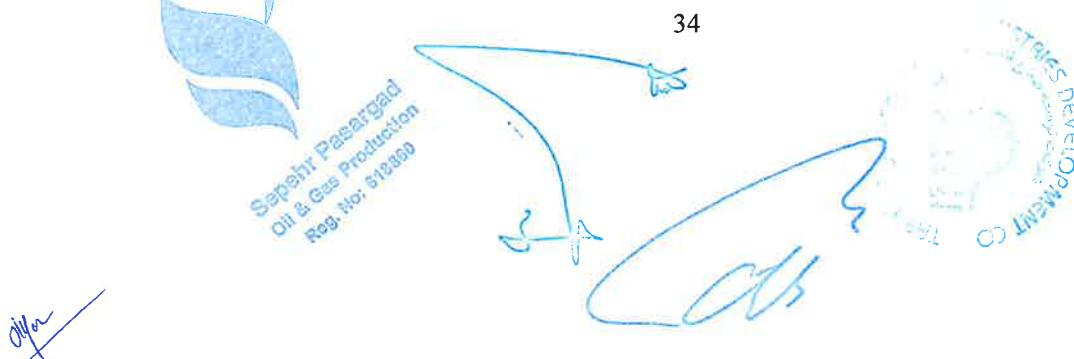
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Table 21: Estimated Works and Prices for Maintenance Consumables

Item	Item Description	Unit	Quantity (A)	Unit Price (USD/ Unit) (B)	Total Price (USD) (A×B)
1.	Diesel	Liter	50000	0.039	1,950.00
2.	Potable Water	Liter	25000	0.058	1,450.00
3.	Service Water	Liter	1000000	0.029	29,000.00
4.	Oil (Behran torbu Diesel 46)	Liter	8820	4.8574	42,842.27
5.	Oil (Behran Hydraulic 32)	Barrel	6	465.42	2,792.52
6.	Oil Filter (Kaj 4056)	Piece	504	29.09	14,660.86
7.	Fuel Filter (Taksaz TFC-NB8102)	Piece	252	48.48	12,217.46
8.	Air intake Filter (Height: 27 cm Outer Diameter: 16.5 cm Inner Diameter: 10 cm)	Piece	126	48.48	6,108.73
9.	Glue (Gasket maker Permatex)	Piece	60	15.51	930.60
10.	Teflon Tape	Pack	60	1.94	116.40
11.	Electrical tape	Pack	30	1.94	58.20
12.	Rug (Cleaning cloth)	Pack	24	135.75	3,258.00
13.	Hose (3/8" 20 bar)	Meter	60	58.18	3,490.80
14.	Hose (3/8" 60 bar)	Meter	60	58.18	3,490.80
15.	Coolant	20 L Barrel	30	96.96	2,908.80
16.	Anti-freez	Gallon	30	58.18	1,745.40
17.	Alternator Belt (AX 56LI)	Piece	42	193.93	8,145.06
18.	Iron Glue Pattex/Kraft	Piece	24	8.90	213.60
19.	Gasket maker Permatex/Dirco	Piece	40	62.33	2,493.20
20.	Loctite 406 (oring)	Piece	4	44.52	178.08
21.	Loctite Thread locker 242	Piece	4	31.16	124.64
22.	Sand paper Iron 300	meter	16	35.61	569.76
23.	Sand paper Iron 400	meter	16	35.61	569.76
24.	Sand paper Matador 300	Piece	20	2.23	44.60
25.	Sand paper Matador 600	Piece	20	2.23	44.60
26.	Sand paper Matador 900	Piece	20	2.23	44.60
27.	Burrs(steel) Die Grinder	set	2	60.10	120.20
28.	Polishing bit(steel) Die Grinder	set	2	46.74	93.48
29.	Pencil wire(steel) Die Grinder	Piece	20	11.13	222.60
30.	Flap wheels Die Grinder	Piece	20	55.65	1,113.00



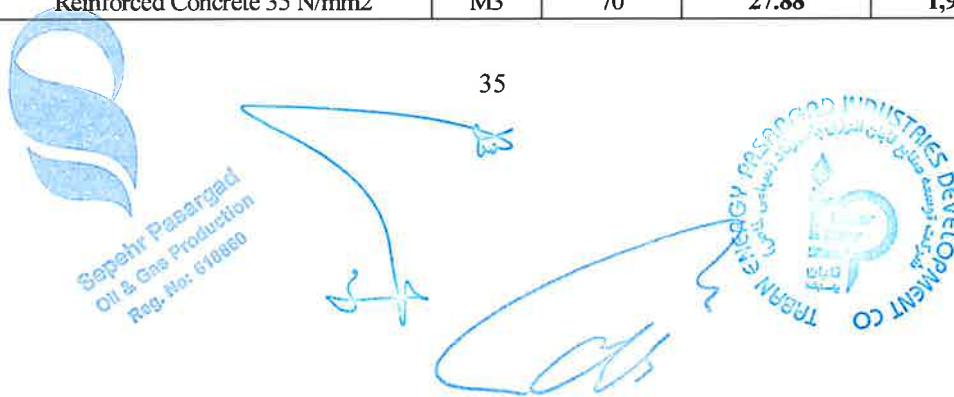
 Sepehr Pasargad Oil & Gas Production	Sepehr Pasargad Oil and Gas Production Company	
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Item	Item Description	Unit	Quantity (A)	Unit Price (USD/ Unit) (B)	Total Price (USD) (A×B)
31.	Drill bit Drill (INGCO-AKDB1195)	Set	10	115.75	1,157.50
32.	Cutting Wheels Mini grinder	Piece	40	353.92	14,156.80
33.	grinding disc wheel Mini grinder	Piece	10	13.36	133.60
34.	Flap disc wheel Mini grinder	Piece	10	222.59	2,225.90
35.	Welding Electrode rod Welding machine	Pack	4	93.49	373.96
36.	Grinding shield Grinder	Piece	16	26.71	427.36
37.	Hack saw blade Hack saw	Piece	24	4.45	106.80
38.	Glove	Piece	160	13.36	2,137.60
39.	Cutter	Piece	10	33.39	333.90
40.	O-ring kit Viton	set	8	779.06	6,232.48
41.	Molykote Grease	Liter	2	618.71	1,237.41
42.	wd-40	Piece	10	11.13	111.30
43.	contact cleaner (Nahid Spray)	Piece	6	13.36	80.16
44.	Grease lubricant	Piece	10	445.18	4,451.80
45.	Sub-Total Price (USD)				174,164.59

Note: The consumable mentioned in above table are only for works in section 3.3 "Other services" stipulated in Appendix-1 or in case of Company requested. The required consumables for other works in this Contract including Maintenance Jobs and Special maintenance Services shall be deemed included in lump sum/unit prices of that item.

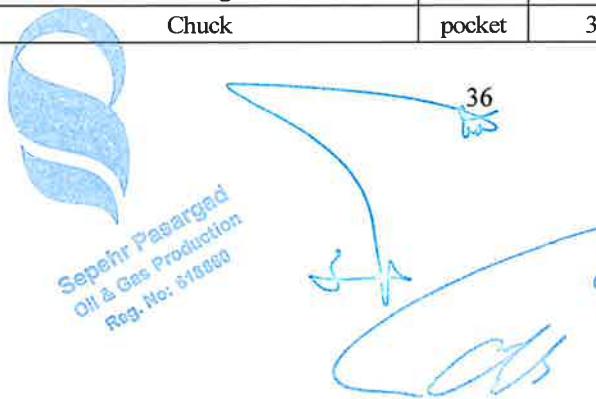
Table 22: Estimated Works and Prices for Civil Maintenance Material

Item	Item Description	Unit	Quantity (A)	Unit Price (USD/ Unit) (B)	Total Price (USD) (A×B)
1.	Fine Sand (pass through No. 16 sieve)	M3	25	5.65	141.25
2.	Moderately Coarse Sand (pass through No. 8 sieve)	M3	35	5.65	197.75
3.	Coarse Sand (pass through No. 4 sieve)	M3	25	4.52	113.00
4.	Concrete 15 N/mm ²	M3	60	27.88	1,672.80
5.	Reinforced Concrete 25 N/mm ²	M3	40	27.88	1,115.20
6.	Reinforced Concrete 30 N/mm ²	M3	40	27.88	1,115.20
7.	Reinforced Concrete 35 N/mm ²	M3	70	27.88	1,951.60



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Item	Item Description	Unit	Quantity (A)	Unit Price (USD/ Unit) (B)	Total Price (USD) (A×B)
8.	Corrugated Galvanized Sheet (thickness 1 mm – w 1m – L 2m)	kg	600	2.11	1,266.00
9.	Corrugated Galvanized Sheet (thickness 1 mm – w 1.25m – L 2.5m)	kg	600	0.75	450.00
10.	PVC pipe 4"	Le	20	4.52	90.40
11.	PVC pipe 6"	Le	20	5.65	113.00
12.	PVC Elbow	Pcs	10	0.38	3.80
13.	PVC Connection	Pcs	10	0.38	3.80
14.	Asphalt (Topeka)	Ton	40	10.93	437.20
15.	Asphalt (Binder)	Ton	100	10.55	1,055.00
16.	Grating	kg	500	0.75	375.00
17.	Angle 30*3	kg	245	0.38	93.10
18.	Angle 50*5	kg	452	0.38	171.76
19.	Angle 60*6	kg	650	0.38	247.00
20.	Angle 70*7	kg	443	0.38	168.34
21.	Hollow Structural Section – Square 40 mm * 4 mm	kg	527	0.38	200.26
22.	Hollow Structural Section – Square 80 mm * 4 mm	kg	900	0.38	342.00
23.	Hollow Structural Section – Rectangle 60 mm * 40 mm * 4 mm	kg	677	0.38	257.26
24.	Hollow Structural Section – Rectangle 80 mm * 40 mm * 4 mm	kg	621	0.38	235.98
25.	Channel Section 80	kg	518.5	0.38	197.03
26.	Channel Section 100	kg	1272	0.38	483.36
27.	Channel Section 150	kg	537	0.38	204.06
28.	Channel Section 200	kg	370	0.38	140.60
29.	Sandwich Panel t=40 mm – w=100 cm (for wall)	M2	200	4.22	844.00
30.	Sandwich Panel t=100 mm – w=95 cm (for wall)	M2	25	10.02	250.50
31.	Sandwich Panel t=50 mm – w=100 cm (for Roof)	M2	200	5.26	1,052.00
32.	Sandwich Panel t=100 mm – w=100 cm (for Roof)	M2	25	10.55	263.75
33.	Grout g2	M3	2	99.84	199.68
34.	Chuck	pocket	30	0.75	22.50



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 TABAN PASARGAD
 INDUSTRIES DEVELOPMENT CO
 IRAN ENERGY PASARGAD INDUSTRIES DEVELOPMENT CO
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Item	Item Description	Unit	Quantity (A)	Unit Price (USD/ Unit) (B)	Total Price (USD) (A×B)
35.	White Cement	pocket	100	1.13	113.00
36.	Brick (22*10*5.5)	Pcs	2500	0.38	950.00
37.	Cement Brick (40*20*15)	Pcs	1500	0.38	570.00
38.	Wall Tile (20*20)	M2	20	3.01	60.20
39.	Wall Tile (60*30)	M2	50	13.56	678.00
40.	Wall Tile (120*60)	M2	50	54.25	2,712.50
41.	Floor Tile (30*30)	M2	50	6.78	339.00
42.	Floor Tile (Ceramic) 40*40	M2	50	3.01	150.50
43.	Floor Tile (60*60)	M2	30	3.62	108.60
44.	oil-based paint	M2	100	0.38	38.00
45.	priming paint	M2	250	0.38	95.00
46.	undercoat paint	M2	250	0.38	95.00
47.	Mosaic (30*30)	M2	350	3.62	1,267.00
48.	Fence (Steel wire) m 2.70mm, 5 cm	Kg	800	0.75	600.00
49.	Fence Profile 4" – h=2.4	kg	1410	0.75	1,057.50
50.	Barbed wire	kg	150	0.75	112.50
51.	Gravel (3/4 & 3/8)	M3	700	3.39	2,373.00
52.	H beam 10	Kg	500	0.75	375.00
53.	H beam 12	Kg	500	0.75	375.00
54.	H beam 14	Kg	500	0.75	375.00
55.	H beam 16	Kg	500	0.75	375.00
56.	H beam 18	Kg	500	0.75	375.00
57.	H beam 20	Kg	500	0.75	375.00
58.	Rubble Stone	M3	40	5.65	226.00
59.	Bitumen Material (Isogamy)	M2/Roll	200	0.75	150.00
60.	Limestone	M3	30	2.26	67.80
61.	Mastic	Tube	100	0.75	75.00
62.	Sealing Foam	Tube	200	1.88	376.00
63.	Liquid Waterproofing sealant 20 Lit	barrel	10	13.19	131.90
64.	False Ceiling with complete structure	M2	200	4.52	904.00
65.	Cement type II	Pack	300	0.75	225.00
66.	Cement type v	Pack	300	0.75	225.00
67.	Plaster	Pack	150	0.75	112.50

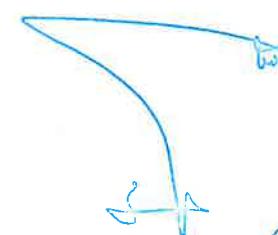
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Item	Item Description	Unit	Quantity (A)	Unit Price (USD/ Unit) (B)	Total Price (USD) (A×B)
68.	Glass (6 mm)	M2	20	0.90	18.00
69.	Cornice (PVC)	M	70	1.09	76.30
70.	Flash Tank (10 lit)	Set	10	0.75	7.50
71.	Solid cement block	Pcs	500	0.75	375.00
72.	Washbasin	Set	10	0.75	7.50
73.	Toilet stone (Iranian toilet)	Pack	10	0.75	7.50
74.	Plumbing Fixtures and Consumables	Set	2	6.34	12.68
75.	Push Lock	Set	25	3.39	84.75
76.	Plate Sheet 10mm	kg	1570	0.38	596.60
77.	Plate Sheet 12mm	kg	1884	0.38	715.92
78.	Base Material (to repair road) with 100% compaction	M3	250	0.90	225.00
79.	Sub-base Material (to repair road) with 100% compaction	M3	250	0.90	225.00
80.	Geotextile	M2	500	0.38	190.00
81.	Geogrid	M2	500	0.90	450.00
82.	GRE Pipe 3" with adhesive and connection	Le	5	22.23	111.15
83.	GRE Pipe 4" with adhesive and connection	Le	4	24.11	96.44
84.	GRE Pipe 6" with adhesive and connection	Le	4	26.00	104.00
85.	GRE Pipe 8" with adhesive and connection	Le	4	33.53	134.12
86.	GRE Pipe 10" with adhesive and connection	Le	4	36.92	147.68
87.	GRE Pipe 14" with adhesive and connection	Le	4	44.31	177.24
88.	GRE Pipe 16" with adhesive and connection	Le	4	59.15	236.60
89.	PE100 Pipe 2" with adhesive and connection	Le	7	31.12	217.84
90.	PE100 Pipe 4" with adhesive and connection	Le	7	33.76	236.32
91.	PE100 Pipe 6" with adhesive and connection	Le	7	36.39	254.73
92.	PE100 Pipe 8" with adhesive and connection	Le	5	46.94	234.70



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Item	Item Description	Unit	Quantity (A)	Unit Price (USD/ Unit) (B)	Total Price (USD) (A×B)
93.	PE100 Pipe 10" with adhesive and connection	Le	5	51.693	258.47
94.	PE100 Pipe 14" with adhesive and connection	Le	5	62.03	310.15
95.	PE100 Pipe 16" with adhesive and connection	Le	5	82.82	414.10
96.	Explosion Proof Door Knob, push lock & magnet with totally Accessories	set	50	43.49	2,174.50
97.	Rock Flour	Pack	200	43.54	8,708.00
98.	Rebar 6-10	Kg	5000	0.38	1,900.00
99.	Rebar 12-18	Kg	10000	0.38	3,800.00
100.	Rebar 20 up	kg	1000	0.38	380.00
101.	Rebar 8 (mesh) (15*15)	kg	2000	0.38	760.00
102.	Soil from Borrow Pit	M3	1000	18.393	18,393.00
103.	Soil layer Compacted 90%	M3	500	0.38	190.00
104.	Soil Compacted 95%	M3	500	0.38	190.00
105.	Single Wire Cable	M	75	0.75	56.25
106.	Flood LED	PCS	100	0.75	75.00
107.	All kind of socket and plug	PCS	200	0.75	150.00
108.	Electrical Wire	M	1000	0.38	380.00
109.	Junction box	PCS	50	0.38	19.00
110.	Electrical panel	PCS	5	0.75	3.75
111.	Sub-Total Price (USD)				74,641.97

Notes:

1. All of the types of reinforced Concrete shall be used rebar grade AIII.
2. The consumable mentioned in above table are only for works in section 3.3 "Other services" stipulated in Appendix-1 or in case of Company requested. The required consumables for other works in this Contract including Maintenance Jobs and Special maintenance Services shall be deemed included in lump sum/unit prices of that item.



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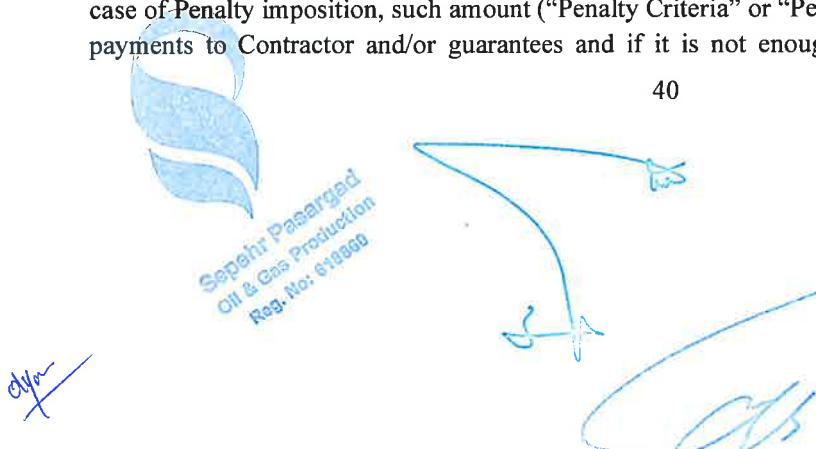
3.2.6 Training

Table 23: Estimated Works and Prices for Training Courses

Item	Title	Location	Man- Day Participants (A)	Unit Rate (USD/Participants) (USD) (B)	Total Price (USD) (A×B)
1.	Instrumentation Maintenance Course	Ahwaz	50	36.07	1,803.50
2.	Radiographic and Penetrant Testing Techniques	Ahwaz	50	34.22	1,711.00
3.	MV & LV Switchgear Operation and Maintenance	Ahwaz	50	31.45	1,572.50
4.	Valve Maintenance and Repair	Ahwaz	50	36.07	1,803.50
5.	Electrical Maintenance Course	Ahwaz	50	34.22	1,711.00
6.	Pump Maintenance Workshop Course	Ahwaz	60	31.45	1,887.00
7.	Compressors Maintenance Course	Ahwaz	60	31.45	1,887.00
8.	Process Safety Management Course	Ahwaz	100	34.22	3,422.00
9.	Layer of Protection Course	Ahwaz	30	32.393	971.79
10.	Maintenance Planning & Work Control in the Oil & Gas	Tehran	50	132.27	6,613.50
11.	Surface Facility Operation and Trouble-Shooting	Ahwaz	100	32.37	3,237.00
12.	Risk Base Inspection (RBI) Course	Tehran	100	32.37	3,237.00
13.	Sub-Total Price (USD)				29,856.79

4 Penalties

The Penalty deducting from Contractor's payment shall not relieve Contractor of its liability, responsibility, obligation, duties and considered or deemed as any possible remedial measure. The Penalty and payment deduction shall not prejudice Company of its other rights under the terms and conditions of Contract. In case of Penalty imposition, such amount ("Penalty Criteria" or "Penalty Amount") shall be deducted from payments to Contractor and/or guarantees and if it is not enough, Company has the right to ask the

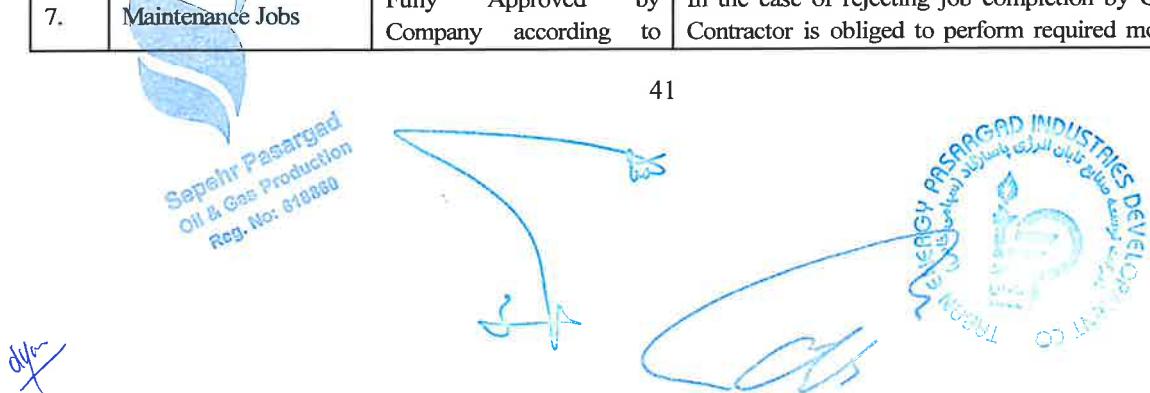


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Contractor to pay to Company such penalties and also recover such amounts thorough legal actions. Tables in this Section presented "Acceptance Criteria" and relevant "Penalty Criteria" (or "Penalty Amount") for Contractor in case of failing to meet such criteria.

Table 24: Penalties

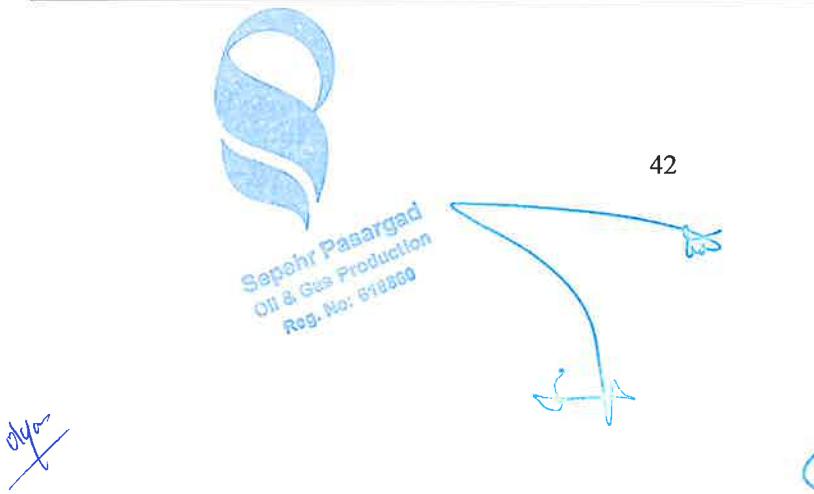
No.	Title	"Acceptance Criteria"	"Penalty Criteria" ("Penalty Amount") (USD)
1.	Food Accommodation and	Fully Approved by Company	If accommodation would not be prepared or poorly-equipped by Contractor or if the quality of food is poor, 1000 USD per Day will be considered as Penalty Amount from the Contractor's Approved Invoices, Guarantees or Good Performance Retention.
2.	Mobilization/ Demobilization	Fully Approved by Company	After 7 business Days of the agreed time for both (might consider as approved postponement by the Company), for each day delay for both criteria, 0.5% of the Mobilization/ Demobilization Price will be deducted from the Contractor's the Approved Invoices, Guarantees or Good Performance Retention.
3.	Diesel generator Provision or Replacement	Fully Approved by Company	For each delay to provide or replace (if required) diesel generator provided by the contractor, for each day delay, 100% of the unit price will be considered as Penalty Amount from the Contractor's Approved Invoices, Guarantees or Good Performance Retention.
4.	Power Shutdown	Fully operational	For each hour of shutdown in each location, a penalty of 800(USD) will be considered as Penalty Amount from the Contractor's Approved Invoices, Guarantees or Good Performance Retention.
5.	Maintenance Jobs	Fully Approved by Company	In the case of delay in providing services, for each day of delay, 100 USD plus 5% of task rate shall be deducted from the Contractor's Approved Invoices, Guarantees or Good Performance Retention. (Up to 20 Days)
6.	Call off Services	Fully Approved by Company	In the case of delay in providing services, for each day of delay, 500 USD plus 5% of estimated Work price shall be deducted from the Contractor's Approved Invoices, Guarantees or Good Performance Retention. (Up to 20 Days)
7.	Maintenance Jobs	Fully Approved by Company according to	In the case of rejecting job completion by Company, the Contractor is obliged to perform required modification to



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No.	Title	“Acceptance Criteria”	“Penalty Criteria” (“Penalty Amount”) (USD)
		Annex-1 attached to Appendix-1	satisfy Company at no cost, otherwise 150% of that task price will be deducted from the Contractor’s Approved Invoices, Guarantees or Good Performance Retention
8.	Call off Services	Fully Approved by Company according to work order	In the case of rejecting work completion by Company, the Contractor is obliged to perform required modification to satisfy Company at no cost, otherwise 40% of the call off financial proposal will be deducted from the Contractor’s Approved Invoices, Guarantees or Good Performance Retention.
9.	Manpower	Meet the requirement in quantity, quality and for Company’s satisfactory	In the case of delay in providing manpower which causes delay in the job progress, for each day of delay, 150% of average daily rate shall be deducted from the Contractor’s Approved Invoices, Guarantees or Good Performance Retention.
10.	Payment of Contractor’s employees’ salaries	Paid on time	In case of delay in payment of Contractor’s employees’ salaries, if the strike happens and cause stoppage or affect the work, or provide any inconvenient conditions, at discretion of Company, Company reserves its rights that for each delayed day, the amount equal to 5000 USD/Day of the statement of that month shall be deducted from the Contractor’s Approved Invoices, Guarantees or Good Performance Retention.
11.	Equipment machinery	and Meet the requirement in quantity, quality and delivery time for Company’s satisfactory	In case of delay in supplying/providing heavy machinery, equipment, tools which causes delay in the job progress, for each day of delay, 50% of average daily rate shall be deducted from the Contractor’s Approved Invoices, Guarantees or Good Performance Retention.
12.	Materials Consumables	and Meet the requirement in quantity, quality and delivery time for Company’s satisfactory	In the case of delay in supplying/providing materials and consumables which causes delay in the job progress, for each day of delay, 1000 USD shall be deducted from the Contractor’s Approved Invoices, Guarantees or Good Performance Retention.



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No.	Title	“Acceptance Criteria”	“Penalty Criteria” (“Penalty Amount”) (USD)
13.	Any Penalty imposed by Iranian Authorities due to reasons not directly attribute to Company.	As per the Iranian regulation, Law and by-laws and local authorities.	If Company receives any penalty from the Iranian authorities due to reasons not directly attribute to Company, Company will charge the same amount and will deduct such charges plus 15% from the Contractor’s Approved Invoices, Guarantees or Good Performance Retention, and if it is not enough, Company has the right to ask the Contractor to pay to Company as case maybe.
14.	Reports and Records	Meet the requirement in quantity, quality and delivery time for Company’s satisfactory	500 – 1000 USD/day for each report shall be deducted from the Contractor’s Approved Invoices, Guarantees or Good Performance Retention.
15.	Environment Pollution (Any Discharges or Offloading the Hazardous and Non-Hazardous Material) in Project.	Contractor shall protect Project environment and observe Iranian environmental regulation.	if the Contractor discharges any liquid/s or other material/s, 3,000 USD for each load shall be deducted from the Contractor’s Approved Invoices, Guarantees or Good Performance Retention.
16.	Environment Pollution (Pollution including Well Location(s), Cluster, Camp, Operation Area)	Contractor shall protect Project environment and observe Iranian environmental regulation.	15,000 USD penalty shall be imposed to Contractor for each pollution (in each time) from the Contractor’s Approved Invoices, Guarantees or Good Performance Retention if the Contractor did not take any satisfactory action from announcement.

Note: If the Contractor delays or defaults in the payment of the wages of the employees at the workplace, in accordance with the Labor Act or the contract concluded between them, in order to prevent any work crises, the Company is authorized to directly pay the Contractor’s debts to its employees or its sub-Contractors and to deduct that said payment plus 20% for the overhead costs from invoices or collect from guarantees or any through any other methods.



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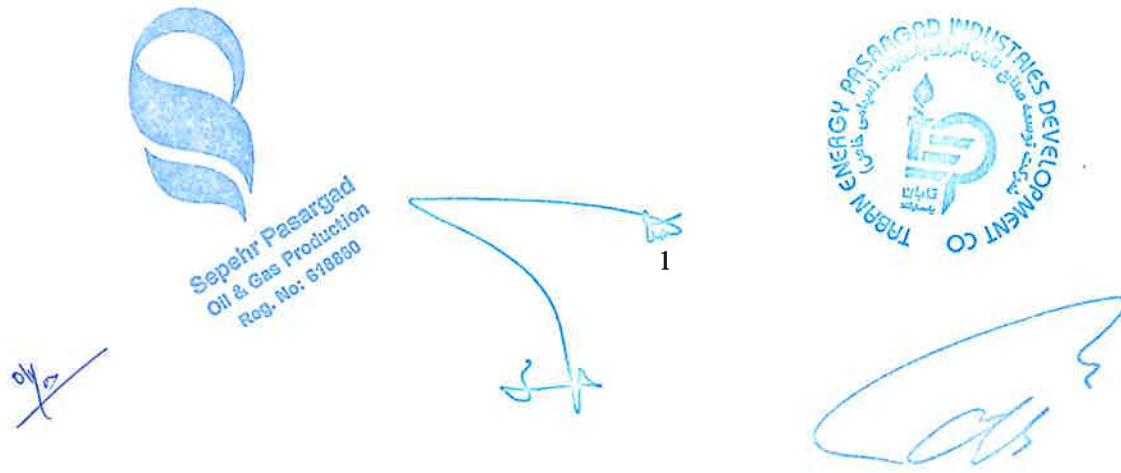


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APPENDIX “3”

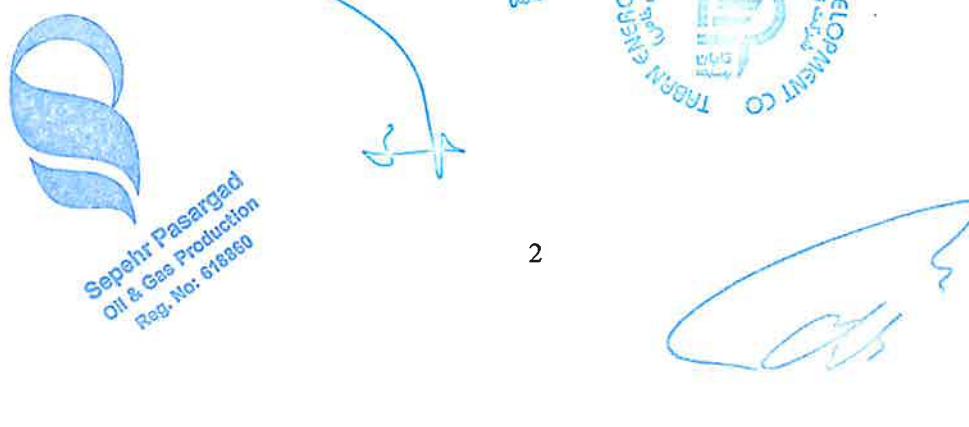
HSE RULES AND REGULATIONS



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1. General requirements

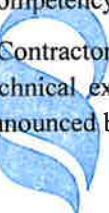
- 1.1. Contractor shall comply with all Company HSE policies and also HSE applicable legislation (including Iranian Laws, regulations and international conventions) throughout the performance of the Work.
- 1.2. NIOC /PEDEC and ministry of petroleum (MOP)HSE rules shall be considered at Maintenance activities.
- 1.3. Contractor shall be fully responsible and liable for obtaining the required HSE permits for the conduction of the Work. One of these required permits is the contractor's safety qualification certificate.
- 1.4. Contractor shall be liable for and shall indemnify and hold Company Group harmless from and against any and all loss or damages resulting from failure of Contractor to strictly comply with provisions of this Appendix.
- 1.5. Required HSE resources such as qualified man power, safety and emergency equipment and facilities according to related NIOC/PEDEC rules and regulations shall be provided by Contractor.
- 1.6. Contractor shall be fully responsible and liable for any failure to comply with HSE requirements, regulations and legislation. Contractor shall indemnify Company and shall pay the related penalties, fees and compensation, losses in relation to such failure throughout the duration of this Contract.

2. Specific requirements

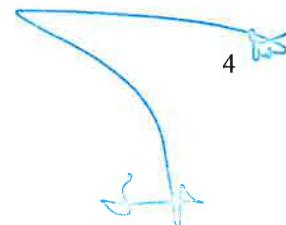
- 2.1. Contractor shall adhere the production operation HSE plan which provided by Company for development and production in Sepehr-Jufair Field.
- 2.2. Contractor shall prepare and submit the required HSE plan in accordance with the to the specifications set by this Contract and Company HSE plan which shall be approved by Company.
- 2.3. Contractor shall identify and assess HSE risks and implement proper control measures to eliminate or mitigate the unacceptable risks. Control measures and mitigation plans should be sufficient, effective and established based on the risk control hierarchy.
- 2.4. Job safety analysis (JSA) should be prepared for all activities and services to be provided by Contractor.
- 2.5. At any location where the Work is performed, Contractor shall be responsible for HSE and welfare of all Personnel involved in the execution and/or inspection of the Work, including Personnel of Company, NIOC, and Third Parties.
- 2.6. Contractor shall take all necessary appropriate measures to protect Company's Properties and Personnel and avoid or minimize any negative impacts on the environment and human societies where they work.
- 2.7. Contractor shall prepare, implement and maintain a process to identify, control and prevent adverse environmental impacts. This process should cover the waste management and preserve of natural resources and biodiversity.
- 2.8. Contractor shall prepare and establish a proper plan for Hazardous waste control.

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- 2.9. Wastes generated by Contractor as a result of the maintenance and repair services shall be disposed according to applicable national requirements and regulations
- 2.10. During the Work, Contractor shall take appropriate measures to safeguard the environment, air, surface and subsurface water, soil, ground, flora and fauna against adverse impact caused by industrial operations. If Contractor's activities may cause any damage to the environment, Contractor must apply every effort to mitigate this damage and its possible impact to the population and asset.
- 2.11. During the Work, Contractor shall avoid spills/discharges of fluids/substances/agents to the ground, and take measures to dispose waste water. Contractor shall have trained Personnel, prepared equipment and materials necessary to respond to environmental emergencies.
- 2.12. A package of spill control kit for the land oil field maintenance operation shall be provided by contractor.
- 2.13. Contractor must have an organized plan for health and hygiene control including, water, food and etc.
- 2.14. The high temperature work environment during the summer months will require attention to fitness to Work and controls on exposure and mitigation.
- 2.15. Contractor's camp shall meet the health and hygiene regulations by Company.
- 2.16. Healthy potable water should be provided and tested regularly.
- 2.17. Showers, toilets, etc. shall be made available in sufficient quantities and in good sanitary condition.
- 2.18. Vendors and Subcontractors shall be managed to ensure that their products and services meet applicable HSE standards. All vendors and Subcontractors shall be evaluated, qualified and selected based on their ability to deliver a quality product or service in a safe, healthy and environmentally acceptable manner. Vendors and Subcontractors shall be managed to ensure that their HSE performance conforms to Contract and Company requirements.
- 2.19. Contractor shall appoint an HSE Representative for this Contract who shall liaise with Contract Representative in respect to all HSE aspects, including identification of the potential hazards associated to the performance of maintenance services, preparation of the related HSE procedures and the control of their implementation, environmental and health management plans.
- 2.20. Contractor shall assign sufficient number of Qualified fulltime HSE experts for maintenance based on the contract, HSE experts must be certified and have passed relative maintenance safety courses. Competency and qualification of HSE experts shall be approved by Company HSE department.
- 2.21. Contractor shall organize regular HSE coordination meetings. Company Representative and/or technical experts shall participate in meetings accordingly. The location of the meetings shall be announced by Company.



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2.22. During the Work, Contractor shall ensure that the safety awareness of Personnel is continuously enhanced and maintained. In this respect, Contractor shall conduct regular safety meetings to review safety procedures and their performance.

2.23. Contractor shall ensure that its Personnel are fully trained and comply with all HSE aspects of the Work. Prior to the beginning of services, Contractor shall provide HSE orientation training to its Personnel involved in the contracted activities and shall record related documents. Pre-HSE induction should be conducted for new Personnel and visitors. HSE matters which should be communicated in HSE induction meetings include but not limited to the following items:

- Work site hazards
- HSE policies and regulations
- Emergency response and location of escape routes and muster points
- Restricted areas for entrance
- H₂S and explosive gas safety
- Location of medical facilities
- Reporting unsafe acts and conditions

2.24. Contractor shall ensure that all its Personnel are aware of the prohibition of alcoholic beverages and illegal drugs and fully comply in this respect.

2.25. All machinery, equipment and vehicles must be in acceptable technical and safety conditions for operations. Company Representative shall have permission to inspect all the machinery and vehicles prior to hiring and during the operation.

2.26. Lifting and hoisting equipment must be in an acceptable technical and safety condition. Lifting operations should be performed in a safe manner.

2.27. Safe driving policy and journey management must be implemented by the Contractor and its Sub-Contractors.

2.28. Contractor must recognize potential emergency situations to prepare and implement emergency response plans. Also, regular emergency drills should be carried out to improve preparedness. Emergency response plans should cover the following situations:

- Fire, explosions, and blowouts
- Spills and unplanned releases of produced fluids and gases
- Work site injuries, outbreaks of diseases
- Motor vehicle accidents



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- Security breaches, sabotage, and civil disorder
- Flood, earthquakes, hurricanes, and other natural events
- Loss of radioactive or explosive materials

2.29. Contractor shall ensure that all Personnel are aware of the emergency response procedure by organizing orientations, drills and tests, and assigning responsibilities.

2.30. Contractor shall immediately report all accidents and incidents to Company. Also, incidents should be investigated and proper corrective actions should be implemented to prevent recurrence. Identified root causes and actions taken shall be submitted to Company.

2.31. Contractor shall have a system of periodic audits and inspections for:

- The health of its Personnel (pre-employment, regular, special and catering crew medical examinations, vaccinations, noise survey, hygiene inspections, potable water testing, as per this HSE “Local data”);
- The competence and training of its Personnel;
- Contractor’s safe working and HSE management procedures;
- The emergency response systems and facilities;
- The preventive maintenance of its equipment;
- The status of its statutory certifications;
- The physical control of its dangerous facilities and materials;
- The effects of its activity on the environment;
- The environmental management plan.

2.32. Based on the results of inspections carried out by Company, Contractor shall take actions to remedy non-conformities at due date and submit a written report to Company about actions taken to retrieve.

2.33. Contractor should follow company safe work systems such as Permit to Work (PTW). for non-routine activities and activities with high potential risks. Examples of high risk or non-routine activities that should be performed with PTW are as below:

- SIMOPS (simultaneous operations)
- Ground disturbance and excavation in locations where buried hazards may exist;
- Work at confined space or area contaminated by chemical and toxic gas and flammable materials;
- Work at radioactive and potentially explosive environments;

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Other

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- Crane operation (especially portable crane);
- Work at height;
- Work in or cross highways and railways;
- Hot work (welding or cutting where there is risk of fire and explosion);
- Work on electrical power facilities;
- Work which involves the use of dangerous substances, including radioactive and explosive materials;
- Pressure tests.
- Pig running
- Other high risk or non-routine activities

2.34. Contractor shall implement a proper safety plan for simultaneous operation (SIMOPS)

2.35. Toolbox talks and PJSM shall be held by each work team at individual work sites before commencement of the day's activities and again just prior to non-routine activities.

2.36. Contractor's Personnel involved in radioactive operations or chemical operations shall be appropriately trained. Also, Contractor's Personnel involved in activities such as hot work, work in confined space, chemicals and pressurized vessels loading operations and etc. shall be appropriately trained and skilled

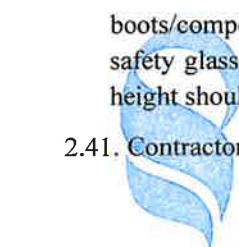
2.37. Chemical and physical harmful agents should be identified, measured and controlled. Liquid chemicals and fuels shall be stored in a designated area, banked and coated to prevent leakage of substances into the ground.

2.38. Contractor shall prepare the procedures and checklist for handling, storage and utilization of any hazardous substances.

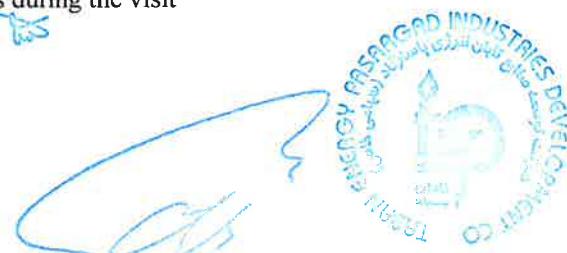
2.39. For any hazardous materials, a material safety data sheet -SDS- shall be made available by the Contractor to reinforce awareness of the HSE risks and knowledge of control and recovery measures by all Personnel.

2.40. Contractor shall provide its Personnel, with proper personal protective equipment (PPE) based on the hazards that they are exposed, for safe execution of the Work including hard hats, steel-capped boots/composite safety shoes, safety harness, inherently fireproof coveralls, gloves, earmuffs, ear plugs, safety glasses and goggles. Also, in case of work at height, proper safety equipment for working at height should be provided by Contractor.

2.41. Contractor shall provide required PPE for visitors during the visit



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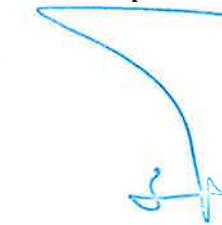
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- 2.42. Contractor shall provide adequate number of portable single H2S and multi gas detectors for operators and emergency teams.
- 2.43. Contractor shall provide adequate equipment and services for H2S exposure such as BA (breathing apparatus (recharging of BAs is contractor's responsibility), wind sock, etc... all of them shall be approved by Company.
- 2.44. Effective H2S training should be conducted for persons involved in operation regularly and the record of training should be submitted to company.
- 2.45. Sufficient number of fire extinguishers should be provided by the Contractor for base camp and well site.
- 2.46. During contracted activities, Contractor shall follow company medical evacuation plan (MEDEVAC) to transport possible injured persons to the nearest hospital for professional medical treatment.
- 2.47. Contractor's Personnel shall undertake medical pre-checks (initial employment) and periodical checkups during the Work. Contractor shall provide verification to Company.
- 2.48. Contractor's Personnel shall be trained for first aid rendering techniques.
- 2.49. Enough number of portable supplied multiclass (A, B, C, D) extinguishers and CO2 extinguishers shall be strategically positioned in well site.
- 2.50. Contractor must ensure that the sewage (waste water from camp and site) is disposed to septic tank and then transported to the nearest approved treatment plant.
- 2.51. Contractor must ensure that the generated general solid waste is transported to the nearest approved disposal area.
- 2.52. Good housekeeping should be performed in work area at all times.
- 2.53. Proper supervision must be taken place during operation and maintenance.
- 2.54. Vehicle, truck, crane and forklift safety instructions should be observed.
- 2.55. Electrical safety and overhead power lines must be considered.
- 2.56. Lifting and hoisting operation safety regulations must be observed.
- 2.57. Lifting equipment must be inspected and certified.
- 2.58. Manual handling must be done safely.
- 2.59. Confined space safety procedures should be followed.
- 2.60. Work at height must be performed in safe manner.
- 2.61. Pig running operation must be performed in safe manner based on the safety standards.



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- 2.62. Torch lights should be explosive proof (anti spark)
- 2.63. NDT and radiography safety procedures should be followed.
- 2.64. Hazardous material and chemical safety precautions must be observed.
- 2.65. Hazardous operation area must be barricaded properly.
- 2.66. Solid Waste and debris must be disposed properly.
- 2.67. Welding and cutting activities must be done safely.
- 2.68. Scaffolding should be performed in safe manner
- 2.69. Proper PPE must be used based on type of hazards.
- 2.70. Machinery, equipment and tools must be inspected regularly.
- 2.71. Working at zone 0 and zone 1 should be done with proper safety consideration.
- 2.72. Isolation and LOTO (Tag out lock out) procedures should be implemented properly.
- 2.73. Detecting and measuring equipment must be calibrated regularly. Calibration certificate should be documented and maintained.
- 2.74. The contractor shall comply with environmental protection regulations and waste management, especially to prevent fuel and oil spills during refueling and oil changes.
- 2.75. All Machineries must have technical & Safety certificate from valid inspection company.
- 2.76. Safe driving policy and journey management must be implemented by contractors and its subcontractors.

3. Contractor's Rights

Contractor may request from Company information on HSE to perform the activities under this Contract. Company shall reasonably assist on delivering such information (if any).

4. Company's Rights

- 4.1. Company reserves the right to supervise and inspect Contractor activities for compliance with all applicable laws, regulations, policies and terms of this Contract.
- 4.2. Based on inspection results carried out by Company, Contractor shall take actions to remedy nonconformities at due date and submit a written notice to Company on correction of these nonconformities. Should Contractor not take actions to remedy identified nonconformities at due date, Company may suspend Work till these nonconformities are corrected and/or apply penalties in



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accordance with Appendix 2. In this case, Contractor shall be liable for any failure or delay of the Work and Performance Period under the Contract.

4.3. Company reserves the right to participate in the investigation of all incidents that happened during the Work under this Contract and input actions to correct consequences.

4.4. If the Contractor fails to comply with the HSE requirements, or contravenes the Law, applicable laws or regulations, and such failure or contravention results in any environmental, safety or health damage, the Contractor shall take all necessary measures to remedy and correct the failure and the effects thereof with the Approval of Company. All such remedial and corrective measures shall be at Contractor's own cost and shall not be recoverable as Contract Compensation notwithstanding anything to the contrary in the Contract.

4.5. Company may require Contractor to remove Personnel from facilities, including Work in Operation Area under this Contract if they:

- Fail to discipline or display negligence;
- Fail to comply with terms and conditions of this Contract,
- Fail to comply with any HSE requirements, or
- Fail to comply with any HSE regulation.

4.6. If Contractor fails to comply with HSE requirements established in this Contract, Law or any other applicable law or regulation, then Company, at its own discretion and depending on severity of the failure, may:

- Notify Contractor to correct the failure;
- Apply relevant penalties and Suspend the Work under this Contract until such failure is corrected;
- Terminate the Contract.

5. Submission of HSE documents

Contractor shall prepare and submit to Company the following reports:

- HSE statistic reports (daily, weekly, monthly, quarterly and annually)
- Incident, accident and near miss reports;
- Emergency drill reports;
- Inspection and audit reports;
- HSE compliance reports;



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- HSE final report;

In addition to the above reports, Company may request Contractor to submit following procedures.
Upon request of Company, Contractor shall prepare and submit the following for Company Approval:

- HSE risk management procedure
- Permit to work procedure and relevant forms
- Incident investigation and reporting procedure
- ERP
- EMP
- SIMOPS procedure
- Isolation & LOTO procedure
- Lifting procedure
- Forklift operation procedure
- Pig running safety procedure
- Pressurized gas cylinders procedures
- Electrical safety procedure
- Fire protection and control procedure
- Use of hand tools procedure
- Safety auditing procedure
- Welding and cutting safety procedure
- H2S / explosive gas safety procedure
- Training and toolbox talk procedure
- Work at height procedure
- Work at night /shift procedure
- Transportation safety procedure
- Waste management procedure
- Spill and leakage prevention and control plan
- Journey management plan



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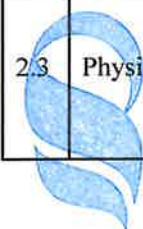
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- Management of change procedure
- Control of dangerous substances procedure
- Reporting and performance indicator procedure
- HSE management of sub-contractor
- Manual handling procedure
- Escape, mastering and evacuation procedure
- Noise and emission control procedure
- Housekeeping and cleaning plan

6. Insurance Coverages

Pursuant to Clause 16 (Insurance) of the Main Body of the Contract, specifically Clause 16.2, regarding insurance coverages, Contractor has to provide at the following insurance coverages:

No	Type of insurance	Description
2.1	Employers Liability insurance	Employers Liability" and/or covering personal injury to or death of the employees of the Contractor engaged in the performance of the Work to the minimum value required by applicable legislation (Iran), and shall provide occupational disease coverage. Such insurance shall be endorsed to the effect that claims formulated by Contractor's personnel against Company, shall be treated as claim against Contractor and compensated by such insurance.
2.2	General Third Party / pollution Liability Insurance	General Third-Party Liability Insurance" for any incident or series of incidents covering the operations of the Contractor in the performance of the Contract including but not limited to Contractor's liability stipulated in ...Main Body, Coverage for any damage / injury to third parties and also any damage / injury or compensation resulting from pollution
2.3	Physical damage insurance	for any damages resulting operations of the Contractor in the performance of the Contract, coverage for all equipment and tools that not owned by Contractor, on full replacement basis, in an amount not less than 500,000 USD.



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2.4	Equipment and machinery All risk insurance	coverage for any damages to Contractor's equipment and machineries during transportation and operation.
2.5	Motor third party liability insurance	
2.6	Other insurance as required	Such as "all risk Cargo insurance" in case of transit of Company's property by contractor



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APPENDIX “4”
STANDARD FORMS



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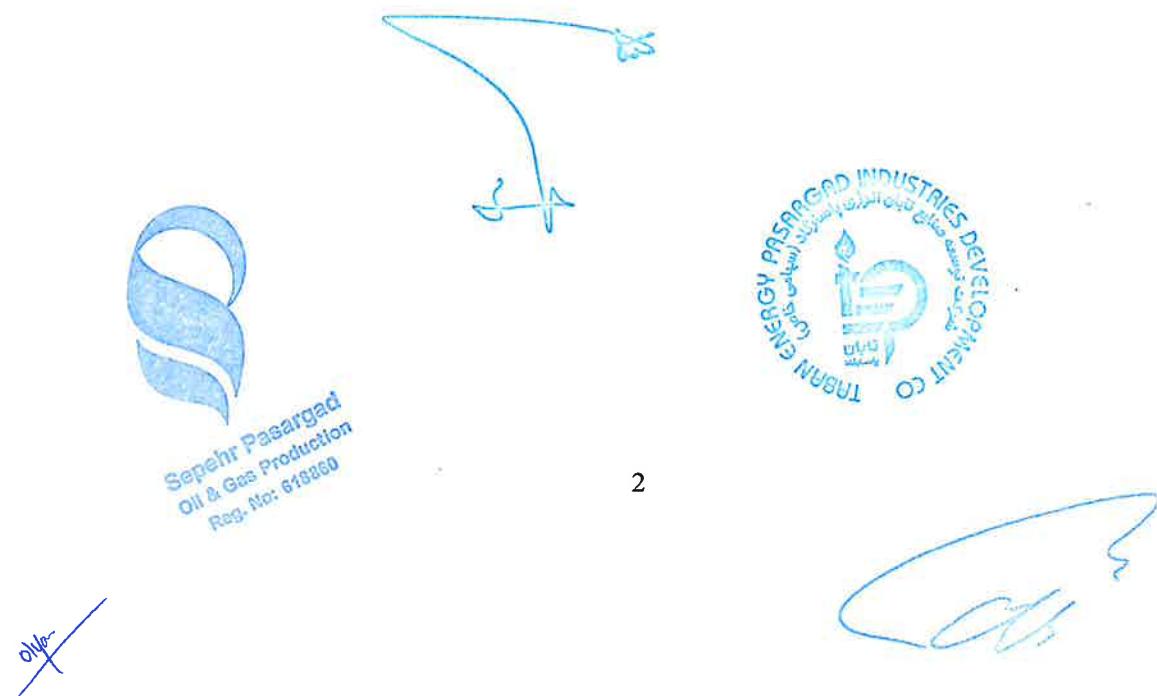
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SPECIMEN 1: Form of Performance Bank Guarantee

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SPECIMEN 3: Form of Bank Guarantee (Form of Demand)

SPECIMEN 4: Form of Bank Guarantee (Persian Version)



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SPECIMEN 1

FORM OF PERFORMANCE BANK GUARANTEE

COMPANY:

Sepehr Pasargad Oil and Gas Production, a Company registered and existing under the laws of Islamic Republic of Iran, with its principal office situated at Unit.1511,15th floor, No38, Hamila Tower, Fallah Zadeh Blvd.Punak, Tehran, Iran, Registration No. 618860, National ID. 14012590403 (hereinafter called "Company") on the one part;

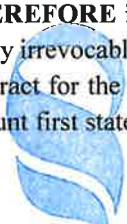
CONTRACTOR:

(Name.....) a legal entity existing under the laws of
 (country.....) with legal address/registered office at
 (in)..... and head office at
(town / country)

WHEREAS the COMPANY and the CONTRACTOR have entered into Contract No.....Title.....dated.....by virtue of which the CONTRACTOR has undertaken to perform the WORK there under, as therein defined, for the account of the COMPANY.

WHEREAS the CONTRACTOR, in accordance with the provisions of the mentioned Contract has undertaken to establish in the name and for the benefit of the COMPANY a performance guarantee bond amounting to; USD.....(USD.....) equivalent to 5% (5 percent) of the lump sum Contract Compensation value in guarantee for the performance of Contractor's WORK under the said Contract.

THEREFORE in compliance with the above we [name of guarantor] ("Guarantor") hereby formally and firmly irrevocably and unconditionally guarantee the CONTRACTOR throughout the validity of the subject Contract for the aforesaid amount and hereby undertake to pay to the COMPANY any amount up to the amount first stated above upon the COMPANY's first written demand, without necessity for any recourse


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TANB PASARGAD INDUSTRIES DEVELOPMENT CO

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to any legal, judicial, quasi-judicial or administrative procedures, stating that the CONTRACTOR has failed to fulfill its obligations in respect of the performance of the WORK or any part(s) thereof under the subject Contract notwithstanding any contestation whatsoever or howsoever by the CONTRACTOR, its Banker(s) and/or anybody purporting to be acting in the name or on behalf of the CONTRACTOR.

The Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by Contractor within fifteen (15) calendar days after the date of receipt of Company's demand .

Guarantor hereby agrees that any payment hereunder shall be made free and clear and without deductions of any percent of future taxes, levies, fees and withholdings or of any nature whatsoever and whomsoever imposes.

This Guarantee shall be interpreted, governed and construed by the laws of the Islamic Republic of Iran and the Guarantor agrees to submit to the jurisdiction of the courts of such Islamic Republic of Iran.

This Performance Bank Guarantee is valid up to the date of the issuance of the Final Acceptance Certificate by Company as specified in Contract and for such extended time, if any, required pursuant to the terms of the aforesaid Contract. Guarantor undertakes to extend the validity several times as requested by the Company up to the date of issuance of Final Acceptance Certificate. In case Guarantor cannot or does not wish to extend the validity or if Contractor does not make proper arrangement with Guarantor for extension, Guarantor shall pay the above mentioned amount in favor of or to the order of the Company without need for a request.

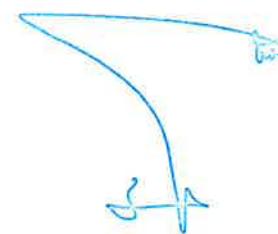
The benefit of this letter of Guarantee may be assigned, held on trust or charged by COMPANY.

GUARANTOR(S)

GUARANTOR(S)



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SPECIMEN 2

FORM OF BANK GUARANTEE (ADVANCE PAYMENT RECOVERY)

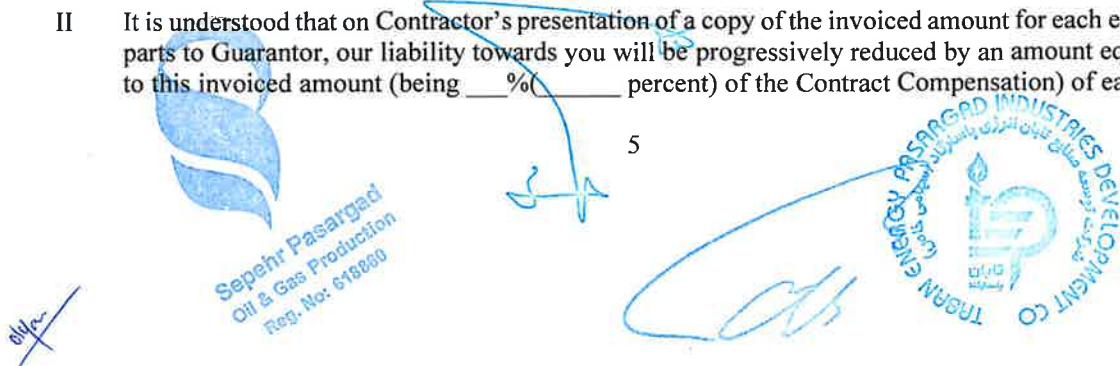
Dear Sir,

Subject : Our Bank Guarantee No. _____ for USD _____

Contract : _____

I We the undersigned.....(hereinafter called the "Guarantor") are informed thata company registered under the laws ofwith its registered office at(hereinafter called the "Contractor") has been awarded a Contract for the supply of(hereinafter called the "Goods") on the terms and conditions governing the Contract no.(hereinafter called the "Contract") with a Contract Compensation of USDfigures (USDin words) and in consideration of Sepehr Pasargad Oil and Gas Production, a corporation duly organized and existing under the laws of the Company registered and existing under the laws of Islamic Republic of Iran, with its principal office situated at Unit.1511,15th floor, No38, Hamila Tower, Fallah Zadeh Blvd.Punak , Tehran, Islamic Repunlic of Iran, making an Advance Payment of USDfigures (USDin words) being% (..... percent) of the Contract Compensation to the Contractor, we hereby undertake to hold at your disposal the sum of USDfigures (USDin words) as a bank guarantee (hereinafter called the "Guarantee"). This Guarantee shall be free of interest and payable in cash on your first written demand signed by two (2) authorized officers of Sepehr Pasargad Oil and Gas Production (namely:(insert name) and(insert name)) stating that Contractor has failed to effect Execute the Work in the manner ordered, without the Contractor or any person on his behalf or ourselves having the right to suspend or delay payment or to object thereto for any reason whatsoever.

II It is understood that on Contractor's presentation of a copy of the invoiced amount for each execution parts to Guarantor, our liability towards you will be progressively reduced by an amount equivalent to this invoiced amount (being% (..... percent) of the Contract Compensation) of each Parts



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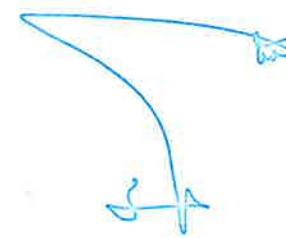
of the Services made by the Contractor as per the terms and conditions in the Contract against the said advance payment.

- III This Guarantee shall come into force on the date that Contractor has received the afore-mentioned Advance Payment Bank Guearantee/ Company's Cheque after the Company's Approval.
- IV This Guarantee shall remain valid until (*insert date*) (hereinafter called the "Expiry Date") which is when Sepehr Pasargad Oil and Gas Production receives all the Work Services that corresponds to the advance payment amount from the Contractor.
- V If prior to the Expiry Date, a written request for extension of this Guarantee is made by Sepehr Pasargad Oil and Gas Production, it may, subject to written agreement of Contractor and the Guarantor, be extended to a date mutually agreed by all parties but not more than sixty (60) days from the Expiry date and subject to a maximum of one extension (hereinafter called the "Extended Expiry Date").
- VI It is a condition in this Guarantee that upon receipt of a commercial invoice and a copy of the bill of lading presented by the Contractor to us to evidence that the Services and relevant Steps have been effected, this Guarantee shall be deemed null and void, regardless of whether the Guarantee is returned to us.
- VII Notwithstanding any other provision in this Guarantee, it is a condition to our liability for payment under this Guarantee that we received a written claim or demand for payment not later than the Expiry Date or the Extended Expiry Date (where applicable), failing which our liability will automatically ceased whether or not this Guarantee is returned to us for cancellation.

Authorized Signatures, seal, name, address, date.



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SPECIMEN 3

BANK GUARANTEE

FORM OF DEMAND

To:

Dear Sirs,

Re: CONTRACT No. _____
GUARANTEE dated201....

We refer to the above Bank Guarantee given by you to us. This is the Demand as defined in the Bank Guarantee.

Terms defined in the Bank Guarantee shall have the same meaning in this Demand.

We certify that the Contractor is in breach of the Contract and hereby demand that you pay to us.....

The monies are to be paid into our Account No:
with.....

Dated,

.....,

By

For



Sepehr Pasargad
Oil & Gas Production
Reg. No: 618850

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SPECIMEN 4

نمونه ضمانتنامه بانکی تضمین پیش پرداخت / انجام تعهدات (نسخه فارسی)

نظر به این که شرکت * (ضمانتخواه) با شناسه حقیقی / حقوقی به نشانی :
کدپستی:
و شماره ثبت و با کد افتصادی و به نمایندگی آقایان و به عنوان صاحبان امضای مجاز به این بانک
اطلاع داده است قصد انعقاد قرارداد با موضوع به شماره را با شرکت بهره برداری نفت و گاز سپهر پاسارگاد (ذینفع)
دارد، این بانک از شرکت * در مقابل شرکت بهره برداری نفت و گاز سپهر پاسارگاد برابر مبلغ دلار به منظور انجام
تعهداتی که به موجب قرارداد یادشده تحت عنوان تضمین پیش پرداخت / انجام تعهدات تضمین و تعهد می نماید در صورتی که شرکت
بهره برداری نفت و گاز سپهر پاسارگاد کتبی و قبل از انقضای سرسید این ضمانتنامه به این بانک اطلاع دهد که شرکت از
اجرای هر بخش و یا کلیه تعهدات ناشی از قرارداد یاد شده تخلف ورزیده است، تا میزان دلار (سقف مبلغ این ضمانتنامه)،
هر مبلغی را که شرکت بهره برداری نفت و گاز سپهر پاسارگاد مطالبه کند، به محض دریافت اولین تقاضای کتبی واصله از سوی این
شرکت بدون آنکه احتیاجی به صدور اظهارنامه یا اقدامی از سوی مجازی قانونی و قضایی و یا اجرائی داشته باشد، بیدرنگ در وجه یا
حواله کرد شرکت بهره برداری نفت و گاز سپهر پاسارگاد نیز بپردازد.

مدت اعتبار این ضمانتنامه تا آخر وقت اداری روز
است و بنا به درخواست کتبی شرکت بهره برداری نفت و گاز سپهر
پاسارگاد واصله تا قبیل از پایان وقت اداری روز تعیین شده، برای مدتی که درخواست شود قابل تمدید می باشد. در صورتی که بانک
نتواند یا نخواهد مدت این ضمانتنامه را تمدید کند و یا شرکت * موجبات این تمدید را فراهم نسازد و نتواند بانک را حاضر به
تمدید این ضمانتنامه نماید، بانک متعهد است بدون آنکه احتیاجی به مطالبه مجدد باشد، مبلغ مندرج در این ضمانتنامه را در وجه
یا حواله کرد شرکت بهره برداری نفت و گاز سپهر پاسارگاد پرداخت کند.

در صورت ضبط ضمانتنامه مراتب به اطلاع سازمان برنامه و بودجه اعلام گردد.

عنوان پیمانکار

* عنوان کارفرما

** موضوع قرارداد مورد نظر



Sepehr Pasargad
Oil & Gas Production
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APPENDIX “5”

CONFIDENTIALITY AGREEMENT



Sepehr Pasargad
Oil & Gas Production
Reg. No: 618860

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Confidentiality Agreement

This Confidentiality Agreement (hereinafter referred to as the "Agreement") is made and entered into in Tehran, the Islamic Republic of Iran on Day of October 2025 by and between:

Sepehr Pasargad Oil & Gas Production Company, a Company registered and existing under the laws of Islamic Republic of Iran, with its principal office situated at 1511, 15th Floor, Hamila Trade Tower, Ashrafi Isfahani Blv, Fallah Zadeh St., Pounak, Tehran, Iran, Registration No. 618860, National ID. 14012590403 (hereinafter called "Company") on the one part;

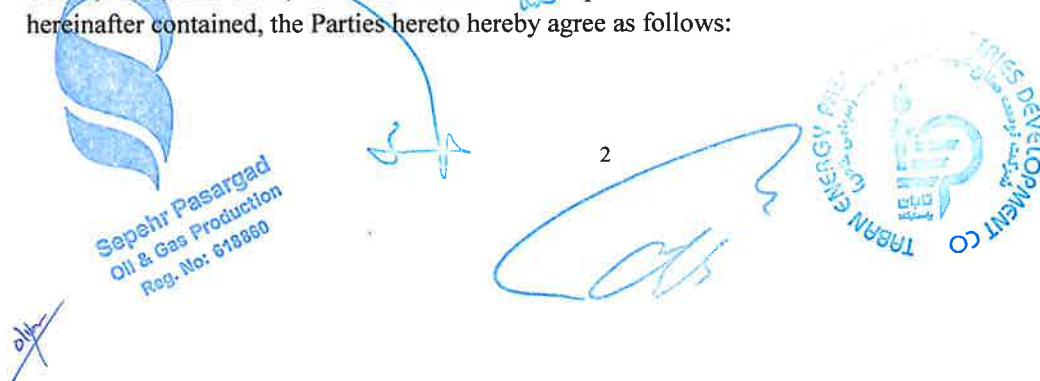
and

Taban Energy Pasargad Industries Development ((joint stock)) a company registered and existing under the laws of Islamic Republic of Iran, whose registered office is located at No. 512, 5th floor, No.38, Hamila Tower, Fallah Zadeh (Hamila) Blvd. Punak, Tehran, Iran, Registration No. 374476, National ID.: 10320254113 and Commercial code: 411371759765 (hereinafter called "Contractor") on the other part Company and the Contractor may be hereinafter referred to either individually as a "Party" or collectively as the "Parties".

WHEREAS:

- A- The Company and National Iranian Oil Company ("NIOC") entered into Development and Production Operations Service Contract for Sepehr-Jufair Field ("Main Contract");
- B- Pursuant to the Main Contract, the Company is required to treat and make its contractors and consultants treat all information and data in connection with or in relation to the Main Contract and other similar information relating to the petroleum operations as strictly confidential;
- C- The Company and Contractor are simultaneously herewith entering into Service Contract for **Maintenance Services** of Sepehr-Jufair Field ("Contract");
- D- According to the Main Body of Contract, all information and data that are furnished in any form or manner by Company to the Contractor or are otherwise acquired or obtained by Contractor in connection with or in relation to this Contract, including but not limited to any plans, maps, sections, reports, records, scientific and technical Data, and other similar information relating to the Work or petroleum operations, shall be treated by the Contractor as confidential and their contents or effects shall not be disclosed by the Contractor without the prior written Approval of Company.

NOW, THEREFORE, in consideration of the promises and the mutual covenants and agreements hereinafter contained, the Parties hereto hereby agree as follows:



 Sepehr Pasargad Oil & Gas Production	Sepehr Pasargad Oil and Gas Production Company	
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1. Contractor's Undertakings

- 1.1. The Contractor acknowledges that the Confidential Information shall be treated in strict confidence and shall not be disclosed to any third parties and shall strictly and exclusively used by Contractor for the purpose of performing Work.
- 1.2. Contractor shall keep Confidential Information strictly confidential and shall make sure that, Confidential Information shall not be disclosed to anyone in any manner whatsoever, without Company's prior written approval except as otherwise set out below. Contractor hereby warrants and undertakes to require its directors, officers and employees who have a clear need to know and have access to the Confidential Information, to maintain the same in strict confidence in the same manner as the Contractor itself. Contractor shall be responsible towards Company for any breach of such confidentiality undertaking by the abovementioned persons.
- 1.3. All Confidential Information furnished by Company to the Contractor shall remain the property of Company or NIOC, as the case may be, and shall be deemed to have been provided to the Contractor only for the purpose of implementation of the Work, and the Contractor shall not, without the prior written approval of Company, use, reproduce or copy, or permit the use, reproduction or copying of, any of said Confidential Information, for any other purposes. However, the Contractor may make copies of Confidential Information for its use in relation to the Work and any such copy shall immediately become part of the Confidential Information.
- 1.4. In the event the Contractor's personnel are allowed to visit Company's offices for the purpose of studying any Confidential Information, they may not take any picture or photocopy of such Confidential Information without Company's prior permission.
- 1.5. Contractor shall not use any of the Confidential Information, for any personal or corporate gain from any business that it has connections with and for any other purposes except as provided for in the Contract.
- 1.6. Contractor may disclose the Confidential Information to its consultants and/or contractors upon prior written approval of Company, as the case may be, in respect of each consultant or contractor, provided in any case that such consultant or contractor receives the Confidential Information only after execution of confidentiality agreement with the Contractor in the same form as this Agreement, which shall be subject to approval by Company at its discretion. Contractor shall be responsible towards Company and/or NIOC for any breach of such confidentiality undertaking by its consultants/contractors.
- 1.7. Contractor may disclose the Confidential Information without the prior written Approval of Company only to the extent such information is requested by the order of the court having jurisdiction over the Contractor or to the extent required by the regulations of stock exchange. In such case, Contractor shall notify Company in writing, before such disclosure.

2. Return of Confidential Information

At the end of the Contract term or upon termination of the Contract Contractor shall promptly return

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TABAN ENERGY
PASARGAD INDUSTRIES DEVELOPMENT CO

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to Company all Confidential Information, as well as all the copies in its possession in whatsoever shapes and forms or destroy such copies upon Company's request. As long as the Confidential Information is in the possession of Contractor, it shall be kept strictly confidential in accordance with the terms and conditions of this Agreement.

3. Liability and Indemnity

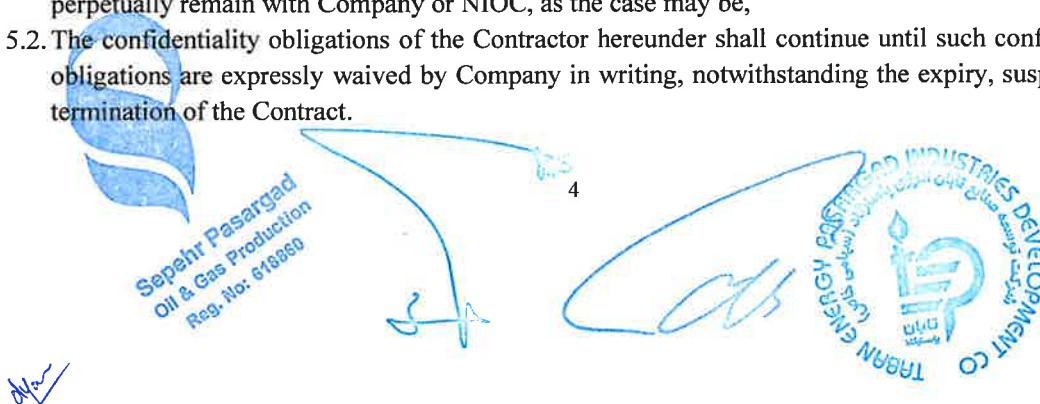
The Contractor shall be liable to Company and shall fully and effectually hold harmless and indemnify Company against all losses, damages, expenses or costs arising in consequence of the Contractor failing for any reason to strictly observe and/or perform the terms and conditions of this Agreement.

4. Governing Law and Dispute Resolution

- 4.1. This Agreement shall be governed by the substantive law of Islamic Republic of Iran.
- 4.2. Without prejudice to Company's rights to obtain injunctive relief from a court of competent jurisdiction to prevent the disclosure of Confidential Information, any dispute arising out of or in connection with this Agreement, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration administered by the Tehran Regional Arbitration Centre ("TRAC") in accordance with the Arbitration Rules of the Tehran Regional Arbitration Centre ("TRAC Rules") for the time being in force, which rules are deemed to be incorporated by reference in this clause.
 - A. The arbitral tribunal shall be composed of three arbitrators.
 - B. The place of arbitration shall be Tehran.
 - C. The language of the arbitration shall be English Language.

5. Miscellaneous

- 5.1. Nothing contained in this Agreement or in any disclosure hereunder by Company shall be construed as granting to the Contractor any license, other right in or to the Confidential Information, or any patent or copyright that has been or may hereafter be issued with respect to the same. Contractor acknowledges that the Confidential Information is forever the intellectual property as well as the commercial asset with considerable value to Company or NIOC, as the case may be, and that it shall be strictly and exclusively used by Contractor for the purpose for which it has been disclosed under the Contract. Any and all property or any other proprietary right, ownership, interest or claim to and all rights and interests in the Confidential Information, shall at all times vest, be exercised and perpetually remain with Company or NIOC, as the case may be,
- 5.2. The confidentiality obligations of the Contractor hereunder shall continue until such confidentiality obligations are expressly waived by Company in writing, notwithstanding the expiry, suspension or termination of the Contract.



 <p>Sepehr Pasargad Oil & Gas Production</p>	<p>Sepehr Pasargad Oil and Gas Production Company</p>	
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- 5.3. The Whereas to this Agreement form an integral part of this Agreement.
- 5.4. The Agreement embodies the entire agreement between Company and Contractor. All prior negotiations, representations, discussions, contracts or agreement in this respect are hereby cancelled or merged herein, including without limitation and any and all general explanations given to Contractor.
- 5.5. No modification, variation or amendment to this Agreement shall be of any force unless it is in writing and executed by the Parties hereto.
- 5.6. Any failure by Company to enforce or require the performance of any terms and conditions of the Agreement shall not constitute a waiver of the right to enforce or require the performance of such terms and/or conditions and shall not affect or impair such terms or conditions in any way or the right of Company at any time to avail itself of such remedies as it may have for any subsequent breach or breaches of any such terms or conditions or of any other terms or conditions of the Agreement.
- 5.7. This Contract is signed in Three (3) copies any and all of which to be considered as original and identical.

IN WITNESS WHEREOF, the parties hereto have caused this Contract duly signed.

Company: Sepehr Pasargad Oil and Gas Production Company

Name: Saeed Dehghani

Position: CEO and Member of Board of
Directors

Signature:

Name: Ahmad Mohammadi

Position: Chairman of Board of
Directors

Signature:

Contractor: Taban Energy Pasargad Industries Development Company

Name: Ebrahim Salemi

Position: CEO and Member of Board of
Directors

Signature:

Name: Mohammad Malaki

Position: Chairman of Board of
Directors

Signature:



✓ M.A.

P.M.A.

APPENDIX 6

Quit Claim Form

We Mr. **Ebrahim Salemi** and Mr. **Mohammad Malaki** as authorized persons of Company Taban Energy Pasargad Industries Development Company, and on behalf of this company (which from now on called as the **Contractor** in this document) in date of signing this official letter declared and confessed that all acquisitive rights, belong, objective and assumed rights plus demands for executing this contract in number SP-CA-SE-PD-0051 with the title of **Maintenance Services for Sepehr and Jufair Field** and, any extension or increase of the work, changing the project timing and schedule or, the price of the mentioned contract, in any types of Company's announcement as official declaration, amendment or relevant addendum have been finalized, solved, settled and agreed with the **Sepehr Pasargad Oil and Gas Production Company** (which from now on called as the **Company** in this document) according with referred below details.

- All Contractor's rights and debits (charges) have paid before the signing date of this official letter in advance by the Company, and the Company has not any responsibility, commitment or any other obligation/debt in any type (contractually, finically and ...) and in any case and title towards Contractor.
- In this matter Contractor declared and announced that from the signing date of this letter withdraw from his right to pursue, raise and appeal any current and future claims, conflict issues, requests, objections under this contract in any quality, measurement, in any procedure and aspect form the Company, Company's crew(s) in any judiciary entities, quasi-judicial establishments, organization, governmental and administrative bodies. Contractor withdraws of his own rights regarding those mentioned rights and moreover, declared a definite cancellation towards pursing any previous claims, conflict issues, requests and objections. Additionally, we acknowledged that any third-party responsibility under the contract towards Company have been deprived, and all those responsibilities and obligations are/ will bear by Contractor.
- Additionally, authorized persons from the side of the Contractor declared and acknowledged that, the Contractor is totally obligated and have full responsibility by his own for any remain rights and debts of involved retail contractors and personnels for this contract execution via his own costs and, regarding any other liability and commitment for aforementioned contract or any addendum and proclamation letter as well. Also, Company has not any responsibility in those relevant matters, and all probable future costs would not be assumed for the Company's obligations.

Authorized Persons Signature and Stamp:

***This Quit Claim has to be filled, signed and stamped by the Contractor (authorized persons) which this context also has to be written on the Contractor official letter header.**



Sepehr Pasargad
Oil & Gas Production
Reg. No: 618880

