



चेन्नै पेट्रोलियम कॉर्पोरेशन लिमिटेड  
(इंडियन ऑयल की ग्रुप कम्पनी)

**Chennai Petroleum Corporation Limited**  
(A group company of IndianOil)

Ref: CC011410

March 31, 2011

**NOTICE INVITING TENDER**  
**CORRIGENDUM NO.1**

Dear Sir,

Name of the Work: Mechanical Treatment of Oily sludge at Manali Refinery of CPCL,  
India

NIT Ref: CC011410 dated 23.02.2011

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This has reference to the above Tender document for the subject work.

The techno commercial clarifications vide annexure-1 and the location sketch of oily sludge pit area vide annexure-II are attached along with this corrigendum1, which form part of the tender document.

The terms & conditions of bid document stand modified to the extent indicated under column " ADDITIONS / DELETIONS / MODIFICATIONS / CLARIFICATIONS".

The due date for submission of the bid is extended from 05.04.2011,15.00 hrs to 11.04.2011 upto 15.00 hours.

All other terms and conditions of the bid document except those modified to the extent of this corrigendum 1 shall remain unaltered.

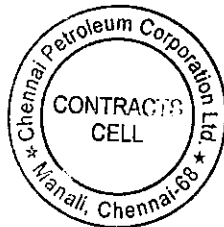
Bidders to note that this corrigendum 1 forms part of the bid document.

Copy of this corrigendum1 is to be downloaded, signed & sealed on all pages as token of acceptance and submitted along with the unpriced part of the offer.

Thanking you,

Very truly yours,  
For CHENNAI PETROLEUM CORPORATION LIMITED,

**S.SAKTHEVELAN**  
**MANAGER (CONTRACTS CELL)**



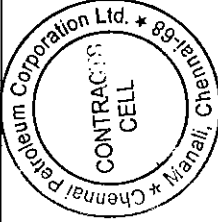
मणली, चेन्नै - 600 068.  
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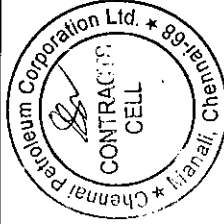
Sl. No.	Clause No.	Page No.	Details	Bidder's Query	ADDITIONS / DELETIONS / MODIFICATIONS / CLARIFICATIONS
1	10.2 of SCC	51 of 132	Slop oil collected from effluent treatment plants will be provided to the contractor	CPCL is requested to confirm the quality of slop oil with latest report	The following information is added to the referred clause. <b>Slop oil Quality:</b> Typical slop oil quality is as under: Density 780-900 kg/m3 KV at 40°C 5-40 CST BS&W 1-4% by wt
2	10.3 of SCC	51 of 132	The contractor shall undertake external analysis of a representative sample from recognized laboratory	CPCL is requested to provide names of recognized laboratory in Chennai.	The following information is added to the referred clause. Names of Recognized Laboratory: Tamil Nadu Pollution Control, Advanced Environmental Laboratory, Guindy M/s.SGS India (P) Ltd, Thoraipakkam M/s.Sargam Laboratory, Ramavaram M/s.Richardson & Cruddas Ltd.
3	11.2 of SCC	51 of 132	The calibration certificates should be obtained from the agencies duly approved by CPCL and clearance of CPCL Instrumentation Department should be obtained.	CPCL is requested to provide list of its approved agencies for calibration.	The following information is added to the referred clause. M/s. NXL flow instruments No-22-D, halli road , Bomanahalli industrial area, Bangalore-560068 M/s. Fluid control reaserach institute, kanjankode west , Palakad, kerala-678623
4	11.2 of SCC	51 of 132	Bidder has to install necessary piping network, flow meters,	We will use volumetric flow meter / mass flow meter as available with us. Please	The following information is added to the referred clause. <b>For Slop oil and water</b> - Volumetric orifice flow meter shall be used



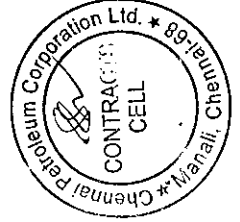
Sl. No.	Clause No.	Page No.	Details	Bidder's Query	ADDITIONS / DELETIONS / MODIFICATIONS/CLARIFICATIONS
			totalizers, energy meter and any other equipment as per requirements for the purpose of measurements including all other associated works and the same shall be totally under the scope of the contractor and included in the price offered by bidder.	confirm acceptance.	<p><b>For steam:</b> vertex flow meter shall be used.</p> <p>For all utilities, totalizers shall be installed</p>
5	11.3 of SCC	52 of 132	CPCL shall approve the piping and instrument drawing and wiring drawings and all other allied drawings for the above sludge processing unit and measurement of utilities prior to installation.	We shall submit process flow diagram and piping layout. In case you require any further drawing, please confirm specific drawing. We will use our own MCC panel. Connection from panel to various drive units will be made as per standard.	The following information is added to the referred clause. All electrical equipments shall meet the required equipment area classification (hazard), IS standards and IE Rules and shall be provided with adequate tripping, earthing and safety protection. The installation shall be got certified by Central Electricity Authority. The entire electrical installation shall be checked and verified by Engineer-in-charge or his authorized representative from Electrical Department.
6	11.6 of SCC	52 of 132	... However, depending upon the	CPCL is requested to provide crane on	The following information is added to the referred clause. Hire charges for (a) Til



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			availability the same may be spared on chargeable basis at then prevalent CPCL rates on hourly basis.....	chargeable basis. Also kindly provide the current rates of the same.	Grove Crane (75 ton) is Rs 8410/hr and (b) Escort Crane (15 ton) is Rs. 3440/hr. These are prevailing hiring charges and any increase at a later date shall also be borne by the bidder, if the equipment is hired. These cranes shall be provided to the bidders depending upon its availability. The crane and its operator only shall be made available to the bidder. The supporting manpower such as riggers, fitters and tools & tackles fall under the scope of the bidder. Further, hire charges shall be levied for a minimum duration of four hours and beyond. The timings shall be clocked from wherever the crane is moved from within the refinery to the sludge treatment site.
7	12.0 of SCC	52 of 132	Tenderer shall submit the Labour License obtained from the office of the Commissioner of Labour, Govt. of Tamilnadu or appropriate authority acceptable to CLM cell of CPCL ...	As we will not deploy more than 18 labours hence we will not be submit Labour License.	The following information is added to the referred clause. Bidder shall comply with all the statutory requirements stipulated in the bid document and confirm acceptance.



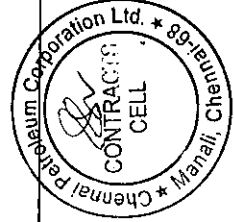
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8	1.1 of Scope of Work (SOW)	121 of 132	<p>The processing plant must be designed &amp; installed to process a minimum of 50 Cu.M/Day (24 hr. operation) of sludge to process average of 1000 Cu.M/Month. Equipment shall be over designed to achieve 20% higher than average processing capacity. The contracted work has to be completed in 12 months to process the quantity of 6000 Cu.M oily sludge including mobilization, processing / maintenance and demobilization.</p>	<p>As per the minimum capacity mentioned in tender i.e 1000 Cu.M/Month, the max time required to process 6000 Cu.M is 6 months. Whereas total time for processing as per tender is 9 months. Therefore, we can maintain timeline by processing 700 Cu.M of sludge/month. However, our endeavour will be to complete processing before 9 months.</p>	<p>The following information is added to the referred clause. The query of the bidder is not acceptable. The stipulations of the bid document shall prevail and bidders shall confirm acceptance.</p>



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9	2.1 of SOW	121 of 132	... The total quantum variation of sludge available for treatment shall vary <u>± 25%</u>	Even if we consider 25% extra sludge for processing, total sludge comes out to be 7500 Cu.M. In that case monthly sludge processing shall be 840 M <sup>3</sup> /Month.	Clarification: The query of the bidder is not acceptable. The stipulations of the bid document shall prevail and bidders shall confirm acceptance.
10	2.2 of SOW	121 of 132	Composition of sludge at different locations (different cross sections of the area and at different depth) is to be verified by the bidder. The bidder has to design the plant suitably giving due consideration to the quality and quantity variation of the sludge.	Please confirm the number, sizes and distance of lagoons from the centralized pit where processing of sludge to be executed.	The following information is added to the referred clause Area sketch attached vide annexure-II to corrigendum1 . All pits are situated in the same location. There is no centralized pit available for process feed. Pumping facility to be made available by the bidder from respective feed pits.
11	4.1 of SOW	121 of 132	The sludge to be processed is Effluent Treatment plant oily chemical sludge, Tank bottom sludge and sludge collected from refinery premises.	Kindly provide lab analysis reports of sludge to be processed.	The following information is added to the referred clause. The bidder shall collect the sludge samples and carry out the analysis at their own cost. However, the typical quality is given below for the purpose of information and the same shall not be binding on the Owner and variations to any extent shall be processed by the plant designed by the



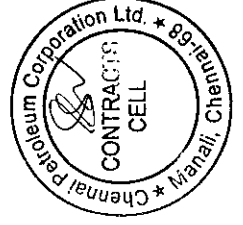
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12	5.7 of SOW	122 of 132	Minimum of 2 numbers of calibrated storage tanks of capacity 50 Cu.M for storing and quantification of the recovered oil	Out unit is a mobile unit & it is not possible to move with 50 Cu.M tanks because of restrictions for inland transportation. We will provide 2 (two) nos. 25 Cu.M (approx) calibrated tank for RO transfer. Also we will provide 1 no. calibrated tank for solvent apart from 2 nos. sludge holding tank of capacity 25 Cu.M each with heating coils.	<p>bidder.</p> <ul style="list-style-type: none"> <li>➤ Oil &amp; Grease content will range from 10-70% by wt.</li> <li>➤ Sediments will range from 10-70%</li> <li>➤ Water content will range from 10-70%</li> </ul> <p>CLARIFICATION:            Not Acceptable. Bidder to comply with the stipulations of the bid document and confirm acceptance.</p>
13	5.7.12 of SOW	123 of 132	Sludge feed, treated sludge and recovered oil are to be analysed by the bidder for monitoring of processing operations on batch basis and external analysis also	The task can be carried out by CPCL at their laboratory.	<p>CLARIFICATION:            Not Acceptable. Bidder to comply with the stipulations of the bid document and confirm acceptance.</p>



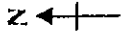
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14	6.10 of SOW	125 of 132	Oil content of the treated sludge (sediments) shall be not more than 5%.	Please note that in all IOCL & other Refineries minimum oil content in the treated sludge (sediments) is kept as less than 10%. CPCL is requested to consider the same in this tender.	CLARIFICATION: Not Acceptable. Bidder to comply with the stipulations of the bid document and confirm acceptance.
15	2(b) of annexure-III to SCC, Payment terms	120 of 132	... all the above stage payments shall be released on submission of a bank guarantee shall be kept valid for a period of three months beyond the schedule completion period of 12 months from the date of award.	CPCL to confirm that this bank guarantee is the BG towards security deposit (10% of the contract value) or it is to be submitted separately for mobilization in addition to the above.	CLARIFICATION: The bidder shall submit bank guarantees towards Security Deposit and mobilization individually/separately. Bidder to comply with the stipulations of the bid document and confirm acceptance.
16	7.5 and 7.6 of Scope of work (SOW)	126 of 132	The samples will be analysed in CPCL laboratory only during general shift office hours from Monday to Friday..... Sediments in	The time mentioned by CPCL is 8 hours for BS&W analysis, which means during sample analysis if there is a delay of even 1-2 hours the report will not be	CLARIFICATION: The understanding of the bidder is incorrect. Bidders to note that the design throughput of the plant and storage tanks capacity to be maintained as per the terms and condition of the tender. Installation of the tanks with the



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			recovered oil by thimble extraction method of ASTM D 473/2002 takes 6 hours. Water content of recovered oil by ASTM D 4006/81 takes 2 hours. Oil content in water by spectrometer takes 2 hours .....	released on same day and our while manpower and equipment will remain idle for whole day. In that case suitable time extension shall be provided by CPCL.	specified capacity itself will take care of the ullage problems.
17	67.1 of SCC	76 of 132	Compensation for delay	CPCL to confirm that the total compensation charged by CPCL will not be more than 10% of total contract value.	CLARIFICATION: Not Acceptable. Bidder to comply with the stipulations of the bid document and confirm acceptance.



Mechanical Treatment of oily sludge at Manali Refinery  
of CPCL, India.

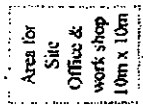
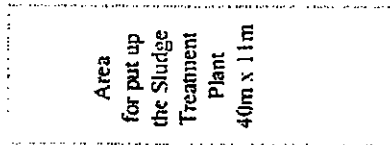
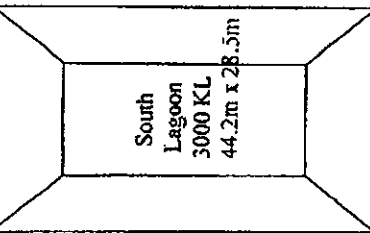
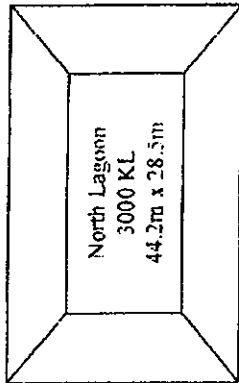
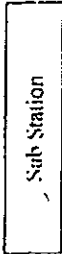
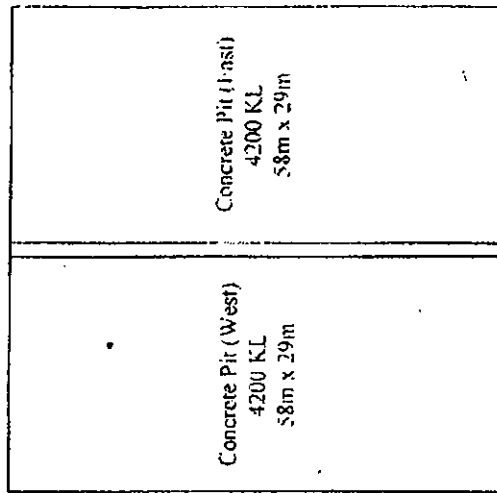


NIT Ref: CC011410 dated 23/02/2011

Annexure-2 to Corrigendum 1  
dated 31.03.2011

Oily Sludge Pit Area

Road



Proposed Road

