



चेन्नै पेट्रोलियम कॉर्पोरेशन लिमिटेड  
(इंडियन ऑयल की ग्रुप कम्पनी)

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

Page 1

Ref: CC 0117 11

January 10, 2012

**NOTICE INVITING TENDER**  
**CORRIGENDUM NO.7**

Dear Sir,

Name of the work : **Providing 3 No. deep bore wells at Suranur and Thiruvathiraimangalam villages for CPCL-Cauvery Basin Refinery near Nagapattinam, Tamil Nadu**

Ref. : 1) LIT No. CC 0117 11, dated 03.08.2011  
2) Corrigendum No.1 dated 05.09.2011  
3) Corrigendum No.2 dated 16.09.2011  
4) Corrigendum No.3 dated 29.09.2011  
5) Corrigendum No.4 dated 28.10.2011  
6) Corrigendum No.5 dated 17.11.2011  
7) Corrigendum No.6 dated 05.12.2011

This has reference to the Tender document and Corrigenda issued for the above work. A pre bid meeting was conducted for the above work as scheduled in the tender document, along with the bidders who had attended the pre bid meeting. The minutes of the pre bid meeting is enclosed as **Annexure - 1**.

During the pre bid meeting many of the bidders have suggested to change the type of pipes used for providing bore wells for durability and better service. The request of the bidders was reviewed and it is proposed to provide bore well using UPVC pipes.

Accordingly, relevant clauses of the tender document under the Scope of Work, Special Conditions of Contract and the Schedule of Rates for Price Bid are modified as detailed below:

1) **Scope of Work:**

The contents of Clause No. 5.2 titled "Scope of Work" in page 57 of the tender document are replaced by the "Revised Scope of Work" attached herewith as **Annexure - 2** to this corrigendum.

2) **Contract Duration:**

Clause No. 5.1 titled "Contract Duration" in Page 56 of the tender document is replaced by the "Revised Contract Duration" attached herewith as **Annexure - 3** to this corrigendum.

The contract period mentioned in the NIT in Page 5 of the tender document stands deleted.

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वेब साइट / Website : www.cpcl.co.in

सर्व शिक्षा अभियान  
Signature of bidder with stamp

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3) **Replies to the queries of Pre bid Meeting:**

Some of the queries to which replies could not be furnished during the pre bid meeting are replied in **Annexure – 4** to this Corrigendum.

4) **Revised Price Bid:**

The Schedule of Rates (SOR) for this tender is completely modified under title "Revised Price Part" and enclosed herewith as **Annexure - 5** to this Corrigendum.

You are requested to offer your competitive prices in the "Revised Price Part" only and not in the Price Part issued earlier with the tender document. Your offer in the "Revised Price Part" only will be considered for further evaluation. The "Revised Price Part" with the quoted price shall be submitted in a separate sealed envelope super scribing as "Revised Price Part for Tender No.CC 0117 11 – Do Not Open".

A copy of the Revised Price Part mentioned as "Not to be quoted" is also enclosed with this corrigendum letter. Bidder shall submit this copy with their signature and stamp along with the unpriced Techno Commercial Bid (Part-A) offer as a token of their acceptance to the Schedule of Rates (SOR) items without deviation. The old Price Part shall be left unfilled and returned with the unpriced Techno Commercial Bid (Part-A) for our records.

5) **Date & Time of Submission and Opening:**

The due date and time of submission of bid is extended upto **03.00 pm on 23.01.2012**. Techno Commercial Bid (Part-A) will be opened at **02.00 pm on 24.01.2012**.

All other terms and conditions stipulated in the bid document shall remain unaltered.

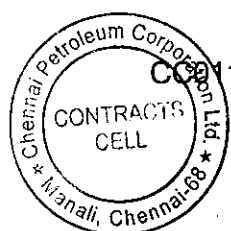
Bidders shall submit this Corrigendum No.7 along with the Annexures and Revised Price Bid in a separate sealed cover superscribed as "Tender No.: CC 0117 11 – Revised Price Bid" with their offer duly signed and stamped on all pages without fail before opening the Techno-Commercial Bid (Part-A).

Thanking you,

Very truly yours,  
For CHENNAI PETROLEUM CORPORATION LIMITED,

  
R.P.RAJA  
**SENIOR MANAGER (CONTRACTS CELL)**

Encl.: Minutes of Pre bid Meeting - Annexure-1 (Pages 3 to 8)  
Revised Scope of Work vide - Annexure-2 (Pages 9 to15)  
Revised Contract Duration - Annexure-3 (Page 16)  
Replies to Queries of Pre bid Meeting - Annexure-4 (Pages 17 to18)  
Revised Price Part - Annexure-5 (Pages 19 to 24)



CC 011711-Corrigendum No.7-Constn. of Borewell

Signature of bidder with seal

**CHENNAI PETROLEUM CORPORATION LIMITED**

(A group company of IndianOil)

Name of the work : PROVIDING 3 NO. DEEP BORE WELLS AT SURANUR AND THIRUVATHIRAIMANGALAM  
VILLAGES FOR CPCL - CAUVERY BASIN REFINERY NEAR NAGAPATTINAM, TAMIL NADU

Tender No. : CC011711

**Minutes of Pre-bid Meeting held at Conference Hall, Administration Block, CPCL - CBR on 18.08.2011****Members Present :****M/s. P. Gunasekaran**

Shri P. Gunasekaran

**M/s. P. Govindaraj**

Shri P. Govindaraj

**M/s. S. M. Constructions**

Shri A. Paramanandam

**M/s. S. Saravanan**

Shri S. Saravanan

**M/s. K. Muniyasamy**

Shri K. Muniyasamy

**M/s. CPCL**

S/Shri L. Balakrishnan, SM (Maint - CBR)

K. Sambasivam, Manager (P &amp; U)

D Anantanarayanan, Manager (Admn.)

C. Selvam, Dy. Manager (Contracts Cell)

Alok Kumar, Engineer (Maint - Civil - CBR)

B. Ramesh Babu, Manager (P &amp; U)



P. Gunasekaran

C. Selvam

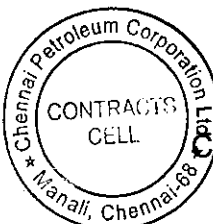
S. Saravanan

P. Sambasivam

18/08/11






Shri Alok Kumar

18/8/11

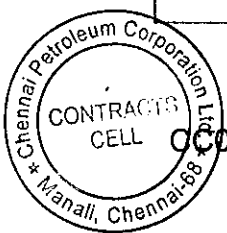




						<p>Accordingly, contract period for each bore well will be assessed based on the handing over of site at each of the location.</p> <p>Considering the difficulty experienced on day to day basis during execution of the work and considering the date of handing over of site, contract duration will be accounted and extensions may be provided during execution.</p> <p>However the overall period of contract will remain as three months only.</p>	<p>However at the location of Channel Poramboke, execution of work cannot be done if agricultural activity is taking place in the adjacent fields, resulting in non availability of space for dumping bentonite slurry. Hence, the bore well at Channel poramboke can be executed subject to the availability of space for dumping of bentonite slurry.</p> <p>Explaining the above reasons, bidders requested for extension of the contract duration suitably.</p>	<p>Bidders informed that the work is likely to be awarded during the forthcoming North east monsoon season only. On assessment of the site conditions, they felt that they cannot execute the work, if there are rains resulting in inundation of the areas. Further, the work may also get extended, if there are rains intermittently during execution. Hence, considering the above difficulties, bidders requested CPCL to grant extension in the</p>	<p>Contract duration - Extension due to rains</p>	<p>5.1</p>	<p>56</p>	<p>CPCL informed the bidders that their request will be reviewed and suitable extensions in the contract period will be granted if they could not do the work due to rains.</p>					<p>3</p>
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 P. Saravan  
 P. Saravanan  
 P. Saravanan  
 P. Saravanan  
 P. Saravanan  
 18/08/11  
 18/8/11

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7		63	5.3	Terms of Payment	<p>It is mentioned in this clause that 75% payment will be made after completion of individual item of work in all respects and inspection and acceptance by the engineer in charge till vertically test is checked and certified. Bidders wanted to clarify on this.</p>	<p>CPCL clarified the bidders that payment terms shall be as follows: 75% payment will be made for individual items before completion of verticality test. 20% will be paid after completion of verticality test, completion / submission of all test reports, bore log, soil test reports, etc. Final 5% will be paid after completion and handing over of the well to CPCL.</p>
8		111	Item 00460	SOR	<p>Bidders informed that it is mentioned to provide 8mm thick MS pipe as per IS:4270 where as in the market only 7.8mm thick MS pipe as per IS:3589 is only available in the market</p>	<p>CPCL informed that they will furnish the reply later.</p>

*[Handwritten initials]*

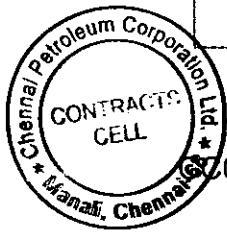
*S. Soman  
Pranav*

*P. Soman. C. Sela*

*P. Soman. Pranav*

*18/08/11*

*18/8/11*



9	General Point	<p>Bidders informed that in their experience bore wells provided with PVC deep bore pipes are durable for a longer duration and have better performance in terms of yield and requested CPCL to consider change of pipe material. One of the bidder M/s. Gunasekaran had submitted a copy of the recently executed bore well using PVC materials at Vellakudi near Tiruvarur.</p>	<p>CPCL informed the bidders that their request will be reviewed and reply will be furnished later.</p>
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M/s. P. Gunasekaran *P. Gunasekaran*

M/s. P. Govindaraj *P. Govindaraj*

M/s. S. M. Constructions + *S. Manan* 18/08/11

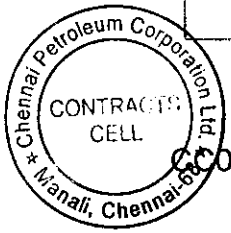
M/s. S. Saravanan *S. Saravanan*

M/s. K. Muniyasamy *K. Muniyasamy*

M/s. CPCL *C. Selva* 18/08/11

*Shriya*

*Thiruvudam* 18/08/11



**Annexure – 2****5.2 – REVISED SCOPE OF WORK****5.2.0 General:**

The special conditions of the contract shall be read in conjunction with the General terms and conditions, Technical specification of works, Drawings and any other Documents forming part of this contract.

**5.2.1 Scope of work:**

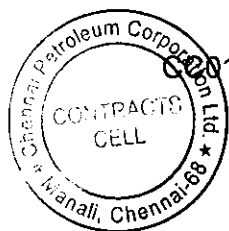
Scope of work for this document shall be as per schedule of rates and as described under respective technical specification and shall be fully complied with as directed by the Engineer-in-charge.

**5.2.2 Scope:**

- 5.2.2.1 The contractor shall execute all items of works as specified in the drawing, schedule of quantities as specified herein or both, **including labour, scaffolding tools & tackles, all construction materials (Including Cement & Steel), water charges, transport, making arrangements for temporary access required for machineries, and all relevant statutory clearance (NOC from central Ground water board had been obtained by CPCL)**. Disposal of debris / scrap and unused materials shall be effected immediately as directed by Engineer-In- Charge.

The scope of work covered in this tender would be in general but not limited to the following, the contractor has to carefully read the scope along with schedule of rates and special conditions of contract and should include all the cost and expenses for carrying out such mentioned works and **no extra will be paid in these regards:**

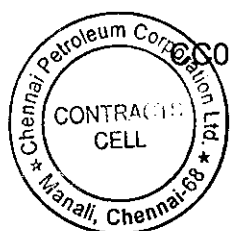
- 5.2.2.2 The contractor shall **drill a pilot bore of 140 mm/150mm dia** and then enlarging to required dia by direct or reverse rotary mud circulation method using rotary rigs, all fuel, labors, tools and tackles, drilling bentonite, water required at site, making arrangements for bentonite swelling tanks, stirring in tanks, drilling pipes, including construction of mud pit (Site for bore well will be shown by Engineer-In-Charge) for a depth up to 360 M below G.L as per requirements/ specified in SOR and direction of Engineer-In-Charge. However, the depth of drilling will depend on the availability of water bearing strata. If water bearing strata are met with, the contractor should give in writing an assessment of volume of water that may be obtained if the main bore well is sunk at site and following records should be maintained at site.
- 5.2.2.3 A complete and accurate log of the borehole when it is being drilled should be kept at site
- 5.2.2.4 Samples of soil should be collected at a maximum of 2-meter interval, or whenever there is a change in strata in bags.



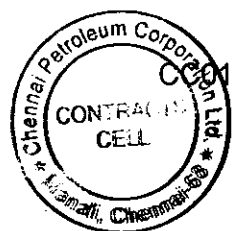
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Signature of bidder with seal

- 5.2.2.5 Different strata samples had to be examined including sieve sizes; grain size distributions have to be found out for detailed analysis of soil samples for designing of slot sizes and slots of strainer pipes.
- 5.2.2.6 The **design of slots for strainers and collection of samples and testing** at Govt. approved laboratory/ IIT's/ Agricultural department lab etc. **should be carried out by the contractor.**
- 5.2.2.7 When rotary drill is adopted lowering of drilling rod should be stopped for a short while and circulation of water, plain of mixed with mud should be continued so that the samples of strata from the correct depth may be collected.
- 5.2.2.8 The contractor should collect samples of water in presence of Engineer-In-Charge, seal the same and send to Govt. approved laboratory for necessary physical, chemical and bacteriological tests.
- 5.2.2.9 The contractor after submission of all the test reports, suggestive design and inference reports regarding drilling/reaming & sinking of main bore, location of ribbed screen pipes with size of slots should be given. At least 15 (Fifteen) days time should be given to Engineer-In-Charge for decision regarding sinking of main bore at that site, location of screen pipes and size of slots.
- 5.2.2.10 The static water level should be recorded as accurately as possible after it has been stabilized.
- 5.2.2.11 In case of percussion drilling, static water levels in bore hole should be measured daily in the Morning before commencement of drilling operations and in the Evening at end of drilling operations to study the behavior of aquifer as met during drilling operations.
- 5.2.2.12 All enabling works for prevention of soil from collapsing, maintaining verticality of casing pipe, spacers, liners, collars required if any would be under contractor scope.
- 5.2.3 **Reaming of 140/150 mm dia pilot bore to 300 mm dia bore** should be carried out by direct or reverse rotary mud circulation method using rotary rigs, all fuel, labors, tools and tackles, drilling bentonite, water required at site making arrangements for bentonite swelling tanks, stirring in tanks, including construction of mud pit (Site for bore well will be shown by Engineer-In-Charge) for a depth up to 360 M below G.L as per requirements/ specified in SOR and direction of Engineer-In- Charge.
- 5.2.4 **Reaming of 300 mm dia bore to 400 mm dia bore** should be carried out by direct or reverse rotary mud circulation method using rotary rigs, all fuel, labors, tools and tackles, drilling bentonite, water required at site making arrangements for bentonite swelling tanks, stirring in tanks, including construction of mud pit (Site for bore well will be shown by Engineer-In-Charge) for a depth up to 360 M below G.L as per requirements/ specified in SOR and direction of Engineer-In- Charge.

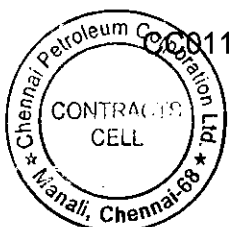


- 5.2.5 Supplying and lowering into **position 200mm dia UPVC plain casing pipes of JDW class of JAIN / FINOLEX conforming to DIN 4925** for deep well etc. complete. Including all cost of materials, labors, tools and tackles etc. **(Outside dia 225 to 225.5 mm & wall thickness 13.0 to 14.2 mm)**. While lowering of pipes for verticality the contractor has to make suitable arrangements for guides to keep the pipe within limits of verticality. The contract has to ensure all the joints are suitably tightened and locked prior to lowering of pipes.
- 5.2.6 Supplying and lowering into **position 200mm dia UPVC ribbed screen pipes of JDW class of JAIN / FINOLEX conforming to DIN 4925** for deep well etc. complete. Including all cost of materials, labors, tools and tackles etc. **(Outside dia 225 to 225.5 mm & wall thickness 13.0 to 14.2 mm)**. While lowering of pipes for verticality the contractor has to make suitable arrangements for guides to keep the pipe within limits of verticality. The contract has to ensure all the joints are suitably tightened and locked prior to lowering of pipes.
- 5.2.7 Supplying and fixing of 200 mm dia of approved **quality bottom plug** made up of deep well casing pipes as specified above **vide 2.1.4** and side walls covered with MS plate formed into bottom cone for easy in lowering
- 5.2.8 After the pipeline is lowered and cleaned at top and covered at top, annular space around the pipe shall be filled with **pea size gravel uniformly**. Packing the annular space around the tube well pipes with 4mm to 6mm size clean gravel with contractor's labour and materials complete. Gravel collected shall be screened; all dust; big size gravels and foreign materials shall be removed. Feeding of Gravel has to be done in such a manner that there is no bridging in the annular space. To avoid bridging, circulating fluid is to be pumped to agitate the gravel as it is being fed. If found necessary more gravel is to be fed after development of the tube well.
- 5.2.9 The top of gravel packing is to be closed with mud (clay) obtained from riverbeds by dropping in the form of balls from top of bore up to existing ground level.
- 5.2.10 **Development and yield test:** When sinking of tube well is completed, the contractor shall develop the tube well either by surging, including washing and agitating or by pumping and backwashing by surging, including washing and agitating or by pumping and backwashing with air lift or by other acceptable methods to get rated discharge. The development can be carried out by either by contractors turbine pump or by air compressor. This development process shall be continued until the stabilization of sand and gravel packing is completely assured. The discharge of water during the development should correspond to depression of 50% higher than the normal depression at which the tube well would be later pumped on continuous duty. The final discharge at working depression obtained at the well should be free from sand during the operation test run with maximum tolerance of 20 ppm in water after 10 minutes of starting of pump. If the depression of 50% higher than normal depression cannot be done the bore well shall be over developed so as to yield a discharge 20% in excess of the rated discharge. Flow of water from pump should not vary at the time of taking readings or during period of test and should be correctly measured by Orifice passing it over a right-angled "V" notch of proper size and with a 12" depth. Initial levels should be recovered every 15 minutes for first two or three hours and



every half an hour thereafter relative ground levels and levels of top of pipe from which depth in tube well are measured shall be indicated by the contractor. The cost should include for giving the test and also for all manpower, tools and tackles, supplying all fittings, fixing and removal of pipes, specials, orifices, "V" notches temporary arrangements for testing facility, valves etc. and making good the same after the tests for each borewell. The contractor has to submit the calculations for discharge.

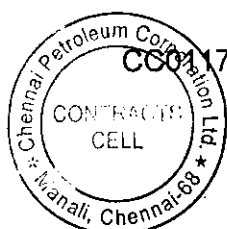
- 5.2.11 **Unsuccessful and abandoned tube wells:** The tube well which do not give the minimum yield at the specified draw down will be declared by Engineer-In-Charge as **unsuccessful well**. In such cases the contractor will be required to pull out the well assembly by jacking or any other method approved by Engineer-In-Charge. In this process proper care should be taken by the contractor to see that no parts of the well assembly becomes irretrievable or becomes unfit for further use. All assembly pulled out shall be immediately measured both by Engineer-In-Charge. This assembly after the approval of Engineer-In-Charge may be used at other successful wells. **However if a well abandoned due to non-verticality, caving in or other defects attributable to poor workmanship of contractor, unsuitability's of equipments shall be termed as abandoned well. NO payments will be made in this regards and well assembly has to be retrieved at contractor's own cost.** The backfilling of abandoned or unsuccessful wells from which well assembly has been removed /extracted shall be suitably filled back with natural materials of the formations encountered and duly rammed at ground level with allowances for settlement so as not to cause injury or accidents to people or cattle. The backfilling shall be at contractors cost.
- 5.2.12 After completion of all boring works and yield test the top of bore well is to be covered with a M.S cap
- 5.2.13 **Doing electrical resistivity test** by of the Govt. approved institute lab like I.I.T or Govt. agencies I.e. TWAD board / Agricultural department with proper report for each location. One location shall include a testing of minimum 3 (Three) Nos. of point. The contractor should submit a report in these regards prior to starting drilling operations for bore well at site.
- 5.2.14 **Electro logging** in the pilot bore holes to asses the ground water potentiality of the alluvial formation (to be done with necessary arrangement and equipment) with contractor's tools & plant, labour etc. and concurrence for same to be obtained from TWAD board, Agricultural department or approved institutes/ Govt. agencies complete for each bore hole for total depth of the well. The contractor should submit a report in these regards prior to starting reaming of 140/150mm dia bore hole.
- 5.2.15 **Verticality Test:** the contractor shall carry out Verticality test by approved method and the results shall be for trouble free working of vertical pump for rated discharge.
- 5.2.16 Following records shall be maintained and kept at site for verification and reference and also shall be submitted to office for records:



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- 5.2.16.1 Details of various strata met within the bore and its composition and depth at which available.
- 5.2.16.2 Sample shall be preserved for every 2 M depth and shall be made available at site for checking whenever required. Sets of samples to be send to lab for determination of sieve size analysis and gradation for design of slot size and No. of slots for strainer. The same should be submitted in the final report showing gradation and depth of strata.
- 5.2.16.3 **Strata chart** showing following shall be maintained at site and shall be made available for inspection:
- Description and depth of strata
  - Static level below ground level
  - Diagram showing exact location of filter blind pipe for each bore before fitting and should be got approved by Engineer-In-Charge.
  - Position of Joints in slotted pipe and blind pipes.
  - Rate of progress of drilling
  - Quantity of gravel filled in well initially and added during development
  - Discharge at intervals of every one-hour observed during development and pumping test.
  - Recuberation curve with time and level rise from draw down to static level.
  - Reading of verticality test at various depths.
  - Calculation of Discharge
- 5.2.16.4 **Electrical Resistivity test & Electro logging test** to be conducted by reputed Govt. recognized institute and a report to be submitted.
- 5.2.17 Water samples collected from bore to be send for lab analysis for various physical, chemicals and bacteriological analysis by Govt. recognized Institute.
- 5.2.18 After completion of all activities and erection of bore wells, the contractor has to compile and submit a report 6 (Six) sets of copies and a soft copy (CD) comprising of equipments adopted for boring, methodologies, all test reports, bore log, discharge calculations etc. to Engineer-In-Charge.
- 5.2.19 On completion of work, the site shall be thoroughly cleaned and all debris to be removed before the site is handed over satisfactorily.
- 5.2.20 The contractor shall arrange for inspection of the sample of each item by Engineer In Charge before proceedings.
- 5.2.21 It may clearly be noted that the inspection and approval of items of work at any stage shall not exonerate the contractor of his responsibilities in respect of the quality of work, workmanship and quality of materials.
- 5.2.22 The work should be completed as per the items specified elsewhere in the document and the rate quoted shall include for doing work round the clock including all holidays, no extra is payable in this respect.



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- 5.2.23 The work may involve co-ordination with the work of other agencies and hence, a supervisor is to be posted at site for taking instructions and should be available for discussion (or) meeting.
- 5.2.24 The complete program for the working at site will have to be approved by client EIC.
- 5.2.25 Water & electricity for the work has to be arranged by contractors at their own cost and all costs for these should be included in the bid documents.
- 5.2.26 After completion of all works all enabling arrangements/ materials below G.L or above G.L should be retrieved and cleared before leaving the site.
- 5.2.27 **SPECIFICATIONS / CODES AND STANDARDS:**

All works under this contract will be executed according to the Specification for works. Whenever the details are not specifically covered in the specifications, relevant provisions in the latest revision and/ or replacements of the Indian Standard Specifications (IS) or any other Inter-national Code of practice/CPWD specifications will be followed. The Contractor shall have to produce copies of such codes/ Standards for ready reference of his own personnel as well as the CPCL's Engineers at site at his own cost and without any additional reimbursement.

5.2.28 **Materials:**

5.2.28.1 **Contractor Scope of Supply:**

All materials, tools & tackles, water, electricity, access, etc. for carrying out entire scope of work will be under contractor's scope.

5.2.28.2 All materials to be used shall conform to the requirements of respective BIS codes. Acceptance criteria of commonly used materials are given below.

5.2.29 **Sand:**

Sand shall comply with the requirements of IS: 383 and graded evenly from fine to coarse as per Zone-II and Zone-III. Sand zone -IV shall not be used.

5.2.30 **Coarse Aggregate:**

Coarse aggregate shall comply with the requirements of IS: 383. The grading of aggregates shall be as per IS: 383.

5.2.31 **Water**

Water used shall conform to the requirements of IS: 456.

5.2.32 **In-site concrete:**

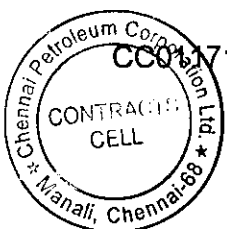
a) Thickness of concrete coating over the steel shall be minimum 50mm.



- b) Concrete shall be poured into well made form properly oiled and made to correct dimensions. Concrete shall be vibrated as necessary to ensure smooth surface, free from voids and irregularities. Any defects, honeycomb etc. shall be made good by Contractor at his own cost.

**5.2.33 Test Certificate**

The contractor shall furnish the relevant test certificate for their supplied materials; Brought in side CPCL premises for use. These test certificates should indicate all the properties of the materials as required in relevant BIS specifications (or) International standards.



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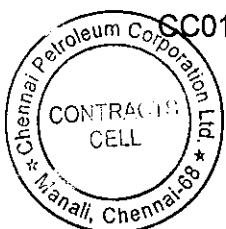
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**Annexure - 3**

**5.1 - REVISED CONTRACT DURATION**

<b>CONTRACT DURATION</b>
<b>6 (Six) Months</b>

- 5.1.1 The contractors shall carryout and complete all the works within 6 (Six) Months after the mobilization period
- 5.1.2 A period of 10 (Ten) Days will be given for mobilization from the date of issue of FOA.
- 5.1.3 The time indicated is for completing all the works in all respects as per specifications, codes, drawings and instructions of Engineer-in-charge.



**Annexure - 4****REPLIES TO THE QUERIES OF PRE BID MEETING**

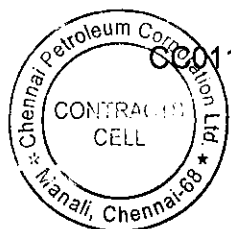
Sl. No.	Refer Sl. No. of Minutes of Pre bid meeting	Subject	Bidder's Query	CPCL's response
1	1	ESI & EPF registration	Bidders informed CPCL that they are regularly doing works for government departments and are not insisted to have ESI / EPF registrations. Since this work is to be executed outside CPCL premises and the labours to be engaged are going to be temporary only, bidders requested exemption from submission of ESI and EPF registration for this tender.	The request of bidders is not acceptable. Tender conditions with regard to ESI / EPF remain unaltered
2	4	Schedule of Rates	Bidders informed that it is mentioned in Item No. 590 of SOR that bidder has to conduct necessary geological test for the proposed bore well. Bidders informed that they cannot be held responsible for the quality and quantity of water in the bore well or the reduction of the yield of bore well.	Contractors are responsible for the quality of water. Contractors shall execute the work in such a way that the quality of water matches with expected quality of water during electro logging test. However the contractors may not be held responsible for quantity of yield of water from the bore, as the same could not be confirmed by any test method other than yield test.



CS011711-Corrigendum No.7 - Constn. of Borewell

Signature of bidder with seal

Sl. No.	Refer Sl. No. of Minutes of Pre bid meeting	Subject	Bidder's Query	CPCL's response
3	5	Unsuccessful and abandoned tube wells	It is mentioned in this clause that contractor has to remove all the assembly and the material in the bore well has to be removed for further use. Bidders informed that removal of assembly from the bore wells is possible only from the PVC bore well. They cannot remove the assembly if the material is Steel pipes. Hence, for our tender, removal and reuse of the bore well assembly is not possible and wanted amendment in clause no. 5.2.11	The request of the bidders is taken care in this Corrigendum
4	8	Schedule of Rates	Bidders informed that it is mentioned to provide 8mm thick MS pipe as per IS:4270 where as in the market only 7.8mm thick MS pipe as per IS:3589 is only available in the market	The request of the bidders is taken care in this Corrigendum
5	9	General Point	Bidders informed that in their experience bore wells provided with PVC deep bore pipes are durable for a longer duration and have better performance in terms of yield and requested CPCL to consider change of pipe material. One of the bidder M/s. Gunasekaran had submitted a copy of the recently executed bore well using PVC materials at Vellakudi near Tiruvarur	The request of the bidders is taken care in this Corrigendum



SCC011711-Corrigendum No.7 - Constn. of Borewell

Signature of bidder with seal



**चेन्नै पेट्रोलियम कॉर्पोरेशन लिमिटेड**  
(इंडियन ऑयल की ग्रुप कम्पनी)

**CHENNAI PETROLEUM CORPORATION LIMITED**

(A group company of IndianOil )

Manali, Chennai- 600 068.

**CONTRACTS CELL**

**PROVIDING 3 NO. DEEP BORE WELLS AT SURANUR  
AND THIRUVATHIRAIMANGALAM VILLAGES FOR  
CPCL-CAUVERY BASIN REFINERY NEAR  
NAGAPATTINAM, TAMIL NADU**

**CORRIGENDUM NO.7**

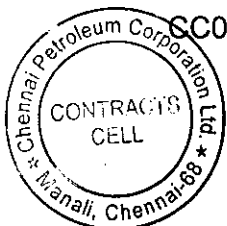
**for**

**Tender Document No. CC 0117 11**

**“REVISED PRICE PART – NOT TO BE QUOTED”  
[TO BE SUBMITTED WITH TECHNO-COMMERCIAL PART]**

CC011711-Corrigendum No.7 - Constn. of Borewell

Signature of bidder with seal



Tendor No.: CC011711

**Schedule of Rates**

Service Required for Plant: 9930 ,CPCL- CBR Refinery

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Amount
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RFQ ITEM NO.00010 BOREWELL AT CPCL CBR

00010

Drilling of Borewells anywhere in Tamil Nadu including transportation from one place to another within Tamil nadu in alluvial soil sedimentary starta of clay and sand stone shale pebbles boulders etc. By first taking a pilot bore of 140 mm/150mm dia and then enlarging to required dia direct or reverse rotary mud circulation method using rotary rigs, all fuel, labours, tools and tackles, drilling bentonite, water required at site make arrangements for bentonite swelling tanks, stirring in tanks, including construction of mud pit (Site for bore well will be shown by Engineer-In-Charge)

00020

Drilling of 140/150 mm dia pilot bore

00030

Upto 60 m depth below ground level

180.000

M

00040

From 60 m depth Upto 90 m depth below GL

90.000

M

00050

From 90m depth upto 120m depth below GL

90.000

M

00060

From 120m depth upto 150m depth below GL

90.000

M

00070

From 150m depth upto 180m depth below GL

90.000

M

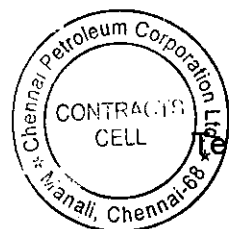
00080

From 180m depth upto 210m depth below GL

90.000

M

To be quoted in Revised Price Part



Tendor No.: CC 0117 11

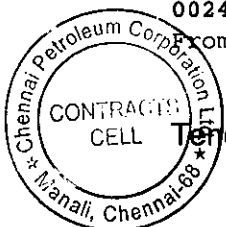
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Tendor No.: CC011711

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rs	Amount
00090	From 210m depth upto 240m depth below GL	90.000	M	.....	.....
00100	From 240m depth upto 270m depth below GL	90.000	M	.....	.....
00110	From 270m depth upto 300m depth below GL	90.000	M	.....	.....
00120	From 300m depth upto 330m depth below GL	90.000	M	.....	.....
00130	From 330m depth upto 360m depth below GL	90.000	M	.....	.....
00140	Reaming of 140/150 mm dia pilot bore to 300 mm dia bore as directed by Engineer-In-Charge				
00150	Upto 60 m depth below ground level	180.000	M	.....	.....
00160	From 60 m depth Upto 90 m depth below GL	90.000	M	.....	.....
00170	From 90m depth upto 120m depth below GL	90.000	M	.....	.....
00180	From 120m depth upto 150m depth below GL	90.000	M	.....	.....
00190	From 150m depth upto 180m depth below GL	90.000	M	.....	.....
00200	From 180m depth upto 210m depth below GL	90.000	M	.....	.....
00210	From 210m depth upto 240m depth below GL	90.000	M	.....	.....
00220	From 240m depth upto 270m depth below GL	90.000	M	.....	.....
00230	From 270m depth upto 300m depth below GL	90.000	M	.....	.....
00240	From 300m depth upto 330m depth below GL	90.000	M	.....	.....

**To be quoted in Revised Price Part**



Tender No.: CC 0117 11

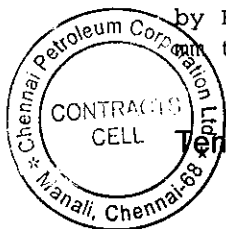
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Tender No.: CC011711

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	R	Amount
00250	From 330m depth upto 360m depth below GL	90.000	M	...	.....
00260	Reaming of 300 mm dia pilot bore to 400 mm dia bore as directed by Engineer-In-Charge				
00270	Upto 60 m depth below ground level	180.000	M	...	.....
00280	From 60 m depth Upto 90 m depth below GL	90.000	M	.....	.....
00290	From 90m depth upto 120m depth below GL	90.000	M	.....	.....
00300	From 120m depth upto 150m depth below GL	90.000	M	.....	.....
00310	From 150m depth upto 180m depth below GL	90.000	M	.....	.....
00320	From 180m depth upto 210m depth below GL	90.000	M	.....	.....
00330	From 210m depth upto 240m depth below GL	90.000	M	.....	.....
00340	From 240m depth upto 270m depth below GL	90.000	M	.....	.....
00350	From 270m depth upto 300m depth below GL	90.000	M	.....	.....
00360	From 300m depth upto 330m depth below GL	90.000	M	.....	.....
00370	From 330m depth upto 360m depth below GL	90.000	M	.....	.....
00380	Supplying and lowering in position 200 mm dia (Outside dia 225 to 225.5) UPVC deep well plain casing pipes JDW class of Jain/ Finolex as approved by Engineer In Charge of 13.0 to 14.2 mm thick conforming to DIN 4925 &	900.000	M	.....	.....

**To be quoted in Revised Price Part**



Tender No.: CC 0117 11

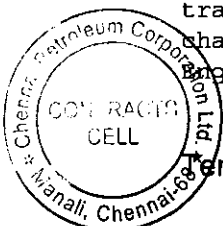
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Tendor No.: CC011711

O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Rate	Amount
	IS 12818-92				
00390	Supplying and lowering in position 200 mm dia UPVC ribbed screen deep borewell pipe(outside dia 225 to 225.5 & wall thickness 13.0 to 14.2) of JDW-RS class- Jain / Finolex as approved by Engineer In Charge conforming to DIN 4925 & IS 12818-92, including providing required slots as per recommendation by hydrogeologists	480.000	M	.....	.....
00400	Providing and fixing in position 200 mm dia UPVC heavy duty JDW CLASS as approved by Engineer In Charge for end cap embedded in M.S cone suitable for UPVC casing pipe including cost of materials and labours for jointing etc. complete.	3.000	EA	.....	.....
00410	Providing and fixing M.S top cover suitable for 200 mm dia UPVC pipes including cost of materials and labours etc. complete.	3.000	EA	.....	.....
00420	Supplying, transporting and packing of clay balls including filling the annular space gradually complete. The clay balls should be free from any sand particles.	39.000	CUM	.....	.....
00430	Packing the annular space around the tube well pipes with 4mm to 6mm size clean gravel with contractors labour and materials etc. complete.	117.000	CUM	.....	.....
00440	Charges for developing of borewell with air compressor of 600 CFM capacity (Minimum 8 hours) including transportation, labour and fuel charges for compressor as directed by Engineer-In-Charge and conducting	48.000	HR	.....	.....

**To be quoted in Revised Price Part**



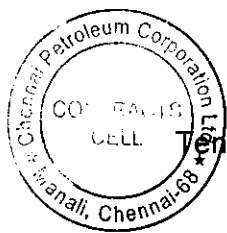
Tendor No.: CC 0117 11

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O.Lev. Sr.No.	Item No Item Description	Quantity	Unit	Tender No CC011711	Amount
	yield test by 'V' notch method inclusive of making all temporary arrangements and making good the same after completion of works.				
00450	Yield test				
00460	Upto .03 cumec	48.000	HR		.....
00470	Labour charges for pulling out the well assembly from unsuccessful and abandoned tube wells upto 200mm dia	330.000	M		.....
00480	Doing electric resistivity test by some approved institute like I.I.T or Govt. agencies i.e. TWAD board / Agricultural department with proper report for each location. One location shall includes a testing of minimum 3 (Three) Nos. of point.	4.000	EA		.....
00490	Electro logging in the pilot bore holes to asses the ground water potentiality of the alluvial formation (to be done with necessary arrangement and equipment) with contractor's tools & plant, labour etc. and concurrence for same to be obrained from TWAD board, Agriculura department or approved institutes/ Govt. agencies complete for each bore hole for total depth of the well.	4.000	EA		.....
	Total				----- -----

(In words: Rupees.....only)

To be quoted in Revised Price Part



Tender No.: CC 0117 11

Signature of Tenderer

Signature of bidder with seal