

## भारत सरकार

स्वास्थ्य एवंपरिवार कल्याण मंत्रालय  
(स्वास्थ्यसेवा महानिदेशालय)

केन्द्रीय औषध मानक नियंत्रण संगठन

केन्द्रीय औषधि परीक्षण प्रयोगशाला

क्षेत्रीयअन्नवऔषध प्रशासनभवन, जी.एम.एस.डीकंपाउंड,

बेलासीसरोड, मुंबईसेन्ट्रल, मुंबई४००००८

दूरभाष : ०२२-२३००२३०९ / ०२२-२३०० २१३८

फैक्स : ०२२-२३०९ ९२४०

ई-मेल : cdtlmumbai@cdsco.nic.in



CDSCO

## Government of India

Ministry of Health and Family Welfare

(Directorate General of Health Services)

Central Drugs Standard Control Organisation

Central Drugs Testing Laboratory

Zonal FDA Bhawan, GMSD Compound,  
Bellasis Road, Mumbai Central, Mumbai - 400 008.

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Accredited By : NABL (ISO/IEC-17025:2005 in Chemical & Biological Testing)

Certified By : IMS (ISO - 9001:2008; ISO - 14001:2004; OHSAS - 18001:2007)

8(4)/CDTL-MUM/17-18/ 1819

Date : 12/7/17

NOTICE INVITING TENDER FOR  
ANNUAL MAINTENANCE CONTRACT FOR SWEAGE TREATMENT  
PLANT OF CAPACITY OF 25 KLD  
BASED ON EXTENDED AERATION TECHNOLOGY.

Sealed tenders are invited for annual maintenance contract for sewage treatment plant at Central Drugs Testing Laboratory (CDTL), Mumbai as per the specifications mentioned at **Annexure-A**herewith.

Interested parties may submit their lowest rates separately for the subject work. They may, if so desire, inspect the foresaid the site at CDTL in any working day between 10.30 A.M to 4.30 PM (Except Saturdays) before quoting their rates.

### A.TENDER.

1. TWO PART TENDER INSTRUCTIONS: The bids have been invited under two bids system i.e. Technical Bid and Financial Bid. The interested vendors are advised to submit two separate sealed envelopes super-scribing "Technical Bids" and "Financial Bids" to CDTL Mumbai. Both sealed envelopes should be kept in a Third envelope of bigger size duly sealed superscribing "Bid for AMC for STP to CDTL, Mumbai.
2. The Tenderers are required to quote separately their lowest rates both in figure and words for each work as mentioned in **Annexure- B** annexed hereto. Two separate sealed envelopes should be used by the tenderer while furnishing financial bid for submitting (i) Tender Document and (ii) Earnest Money super-scribing on the respective envelopes (a) Tender for AMC for STP (b) Earnest money Rs8000/- for AMC for STP.
3. The tender may be sent by post sufficiently early so as to reach in this institution within time, or may be dropped in the Tender Box kept in the Ground Floor of this Institution

4. Important dates.

Date of release of Tender : 12/07/ 2017  
Last date for seeking clarifications : 28/07/ 2017

B. TERMS AND CONDITIONS OF TENDER.

5. The tenderers are required to submit the earnest money (bid security) of Rs.8000/- (Rupees eight thousand only) and tenders received without earnest money will not be considered at all.
6. The tenderers are required to quote their lowest rates for AMC for STP as mentioned in **Annexure- B** annexed hereto.
7. The rates should be valid for 90 days from the date of opening of tender.
8. Hypothetic or conditional Tender will not be entertained. Tender once submitted shall not be allowed to be withdrawn or altered. If the tender is withdrawn or altered by the concerned party at any time after it is submitted, appropriate action may be taken.
9. PLANT VISIT: The bidders are required to visit the site to see the actual installation for themselves to assess the quantum of work involved before submitting the tender. Once the tender is submitted, it will be presumed that the bidder has seen and understood the complete work involved for each of the system.
10. Technical Bid (Envelop No -1): The Bidders are required to submit technical bid enclosing therewith photocopies of following documents, failing which their bids will be summarily rejected and will not be considered .
  - (i) Registration Certificate of the firm/proprietorship, etc.
  - (ii) Copy of PAN/TIN No. and Service Tax number
  - (iii) Copies of Income Tax Return filed for the last two financial years
  - (iv) The firm/agency/contractor should have the experience of rendering their services for maintaining of similar works i.e. maintenance of similar Sewage Treatment Plant along with allied accessories etc. for the complete plant in any Government Sector or large reputed Private Sector enterprise, for the last two years satisfactorily. This should be supported with documentary evidence.
  - (v) Earnest Money Deposit (EMD) of Rs.8,000/- in the form of Demand draft/ Banker's Cheque of any scheduled bank drawn in favour of Director, CDTL, Mumbai payable at Mumbai
  - (vi) The Tender document can be download from Govt. website i.e. [www.cdsc0.nic.in](http://www.cdsc0.nic.in)
11. The Price Bid as per Proforma given in the tender document as **Annexure-B** and then price filled up and submitted in Envelope No -2, duly sealed superscript with name of tender. Any conditions given in the Price Bid may cause rejection of Bid. Further:
  - (i) The financial bids of only technically qualified bidders will be opened in the presence of their representatives attending bid opening on a specified date and time.

- (ii) The rates/prices should be quoted in Indian Rupees in words as well as figures.
  - (iii) The conditional bids shall not be considered and likely to be rejected in very first instance.
  - (iv) All entries in the bid form should be legible and filled clearly. If the space for furnishing information is insufficient, a separate sheet duly signed by the authorized signatory may be attached.
  - (v) Over-writing/over typing or erasing of the figures which render it doubtful and ambiguous are not allowed and shall render the tender invalid.
12. The bid security (i.e.EMD) of the unsuccessful bidders would be returned to them at the earliest after expiry of the final bid validity and latest on or before the 30<sup>th</sup> day after award of the contract.
13. The CDTL, Mumbai in its discretion, reserves the right to reject or accept any or all the tenders, partially or completely, at any time without assigning any reason thereof.
14. In case of a local firm/agency/ contractor, they may deliver/ submit the tender personally in CDTL, Mumbai on or before the due date and time. Postal delay for tender submitted by post shall also not be accepted and all tender submitted in time only would be considered.
15. The CDTL will deal with the tenderer directly and no middleman/commission agents etc. should be asked by the tenderer to represent the cause and they will not be entertained CDTL.
16. Each tenderers has to certify that all the terms and conditions are acceptable to him.

Tenders should be accompanied with the declaration at Annexure C (regarding his power to sign the tender documents) and the checklist at Annexure D (arranging the various documents in the Technical bid)

#### C. TERMS AND CONDITIONS FOR SUCCESSFUL TENDERER.

17. The successful tenderer will have to deposit Performance Security amount corresponding to 10percent of the order value within a week from the date placement or purchase order, either by way of Demand Draft drawn in favour of "The Director, CDTL, Mumbai" or Bank Guarantee from a Commercial Bank, which will be refunded after two months of the successful completion of the contractual obligation of the supplier including warranty obligation on written request of the tenderer. Bid security (EMD) would be refunded to the successful bidder on receipt of performance security. If the successful tenderer abandons the contract, or fails to perform his part of contract, the security deposit or any part thereof is liable to be forfeited. If the contractor abandons the contract after refund of EMD, the Bank Guarantee furnished would be encased.

18. LOG-BOOK: for recording of parameters related to Sewage Treatment Plant shall be maintained by the firm/ agency /contractor showing the complete maintenance done on the Plant and it should be made available to the authorities of CDTL on a monthly basis.
19. Contractor shall provide all necessary consumables, chemicals etc. as required for the complete maintenance as per requirements during the AMC period. All spares parts and materials shall be genuine and of same make and type as installed wherever applicable and a minimum quantity of spares and materials for routine maintenance may be kept at site to minimize time of maintenance. The firm / agency / contractor have to keep all equipments well maintained for the Plant so as to give proper output at all times.
20. Tools and equipment required for maintenance for the STP accessories etc. shall be provided by the firm /agency /contractor.
21. Proper care shall be taken to avoid major breakdown at the plant. In the event of any breakdown, the same will be rectified immediately within 24 hours from the date of reporting of the fault. Similarly, if any breakdown takes place due to negligence of firm/ agency/ contractor, the whole component has to be replaced/ rectified to bring it to the original condition immediately.
22. The rates shall be quoted on yearly basis. The rates shall be all inclusive including taxes and duties etc.
23. Rate should be quoted in figure as well as in words as per ANNEXURE-B.
24. CDTL, Mumbai reserves the right to amend or withdraw any of the terms and conditions contained in the Tender Document or to reject any or all tenders without giving any notice or assigning any reason or to cancel the tender. The decision of Director, CDTL, Mumbai, in this regard shall be final and binding on all.
25. The rates at any stage once quoted shall not be withdrawn.
26. No advance payment will be made at any circumstances. However, on successful completion of every 3 (three) months , payment will be released within a reasonable period from the date of receipt of the bills along with certified copies of monthly service reports, log sheets, work done as per the scope of work mentioned in the tender/contract duly certified by the Concerned in charge.
27. Payment : Contractor will submit quarterly bills duly supported with necessary check list, log sheets monthly service reports duly signed by the concerned in charge and certified by the designated Officer in CDTL , Mumbai to the effect that the job mentioned in the bill actually has been carried out satisfactorily as per the Contract. Thereafter, CDTL, Mumbai will make payment to the contractor within a reasonable period after deduction of applicable taxes/TDS etc.
28. The services required is for initial period of one years. The contract may be extended on mutual consent subsequently based on performance or till finalization of the next tender.

The contract may be terminated at any stage solely at the option of CDTL, Mumbai with an advance notice of one month without assigning any reason.

29. Precaution against any fire hazards or other damages to Plant and equipment shall be arranged by the firm.
30. The firm/ agency/ contractor shall fulfil the requirement of various law enforcing agencies / local authorities, such as Pollution control Board, Directorate of Electricity Safety etc by taking their approvals as and required.
31. The firm/ agency/ contractor will be responsible for the safety of their deputed staff during the performance of their duty at site.
32. In case any of staff is not found up to the mark and not able to do work properly, he will have to be changed as per the instruction of CDTL, Mumbai and immediately replaced by another qualified staff.
33. In case of any problem with the equipment, the firm/agency/contractor shall inform CDTL, Mumbai immediately.
34. The firm/ agency/ contractor shall keep the equipment well maintained, neat and clean and adhere to the maintenance schedule.. Upon placement of work order they will prepare the maintenance schedule and discuss the same with the Institute's designated Official for its implementation. This may be revised from time to time as per the requirement.
35. The tender shall be kept valid for acceptance for a period of 90 days from the date of opening.
36. Any statutory tax as applicable will be deducted from the bill of the contractor.
37. The firm/agency shall maintain data log including running of all mechanical items and chemical dosing schedule.
38. The firm/agency shall operate the filter press as and when required.
39. The firm/Agency shall provide and maintain bacteria culture as and when required.
40. The firm/Agency shall get the treated water tested once in a three months from approved Laboratory. The firm /Agency shall send a supervisor to check the Plant once a month.
41. The firm /Agency shall provide all spare parts for pumps, Motors, clarifier, chlorination, electrical panels, and fittings/fixtures as required ensuring proper functioning of the Plant.
42. Penalty : The firm shall rectify any breakdown within 24 hours failing which penalty for non-performance @ 0.5 % per week of delay subject to a maximum of 10% of the contract price will be imposed and in the event of any damage to the property or life arising out of non performance, contractor will be solely responsible

43. The contractor shall be responsible for proper maintenance of decorum, punctuality, discipline work output and cleanliness of the Plant and its surroundings.
44. Levy/Taxes payable by contractor - Sales Tax/ VAT or any other tax on materials in respect of this contract shall be payable by the contractor and CDTL , Mumbai shall not entertain any claim whatsoever in this respect
45. If the job assigned is not completed in time or done satisfactorily, CDTL will be free to get the same done from other dealer at higher rates; the loss sustained will be deducted from the Security Deposit or any other due payments apart from penalty that may be imposed for deficiency in service.
46. The tendered shall verify that the staff/workers deputed to CDTL are of good character and no criminal record is against any of them.
47. The successful tenderer will be obliged to attend the work as per the required without damaging the CDTL properties and if any loss/damage sustained to the CDTL property it will be recovered from the successful tenderer.
48. JURISDICTION: The Contract/PO shall be governed by the Law of India for the time being in force. The Courts of Mumbai only shall have jurisdiction to deal with and decide any legal or dispute arising out of this contract

#### E. INVITATION OF TENDER

The interested parties may send their sealed tenders for the annual maintenance of Sewage Treatment Plan addressed to the undersigned by name so as to reach on or before July 2017 upto..... which may be opened on the same day at ..... in CDTL by a Committee of Officers constituted for the purpose before the tenderers or their authorised representatives who may wish to remain present. The tenders received after due date and/or time and/or without Earnest Money will not be entertained.

  
Director  
CDTL, Mumai

Enclosure: Annexure A, B, C & D

o/c  
Sheshu  
B,

Annexure A

Scope of Works & Design of Sewage Treatment Plan and other parameters at CDTL - Mumbai

<b>Sewage Treatment Plant (based on extended aeration Technology) of 25KLD capacity at CDTL/Mumbai</b>			
<b>Process Description</b>			
<ul style="list-style-type: none"> <li>➤ Wastewater generated from different sources gets collected in sump near STP.</li> <li>➤ Manually cleaned bar screen installed in a screen chamber ahead of inlet to sump</li> <li>➤ Oil &amp; grease, grit or any other material, which hinders the operation of plant, gets separated before equalization sump</li> <li>➤ From equalization sump the sewage to be pumped to Bioreactor through submersible pumps.</li> <li>➤ Extended aeration through bio-diffused fine bubble aerators followed by tube settler for sludge settling.</li> <li>➤ The digested sludge settles down in clarification tank from where the sludge is bumped to Filter Press.</li> <li>➤ The clear water is then pumped to dual media filter &amp; activated carbon filter from where it gets stored in treated water tank after chlorination</li> <li>➤ Treated water is then used for gardening and other purposes through submersible pump.</li> </ul>			
<b>Design Parameters</b>			
A) FLOW: 25 KL/D.		Sewage Flow rate: 2 KL/hr	
<b>Affluents Characteristics</b>			
Parameter	Unit	Raw Sewage	Treated Sewage
1.pH	-----	5.5-8.5	6.5-7.5
2. BOD	(mg/lit)	350-600	<20
3.COD	(mg/lit)	500-800	<100
4.SS	(mg/lit)	150-300	<10
5. Oil & Grease	(mg/lit)	1-50	<10
6.Bio assay Test		-----	Survival of fish after 96 hrs 100%
<b>Design Characteristics.</b>			
<b>1) Bar Screen Chamber (BSC)</b>		<b>Bar Screen (BS)</b>	
Capacity	25 KLD	Flow Rate, Q peak	6 KL/hr
Average flow rate	2 KL/hr	Velocity of flow	0.3 m/sec
Peak flow factor	3	Angle of placement of Bar Screen	60°
Peak flow rate Q Peak	0.6m/sec	Area for Bar Screen	2.77x10 <sup>-3</sup> m <sup>2</sup>
Surface area required	2.77x10 <sup>-3</sup> m <sup>2</sup>	Bar screen size Req'd	170 mmx170 mm
Surface area provided	0.8 sq.mt	Provided bar screen Size	300mm x 300mm
Volume provided	0.4m <sup>3</sup>	Bar size	10 sq.mm
Size provided	(1.00x0.8x0.5)m SWD+2.0mFB	Clear spacing c/c	20 mm
<b>2. Oil &amp; Grease Trap(OGT)</b>		<b>3. Equalisation Tan (CET)</b>	
Peak Flow Rate, Q peak: 6 KL/hr		Peak FlowRate6KL/hr+1KL/hr(filtrate)=7 KL/hr	
12 m/sec		Detention time : 1Hr at peak flow	
Volume required :1m <sup>3</sup> (effective)		Volume required: 7 KL (Effective)	
Size: 3.9m <sup>3</sup> (1.00x3.0x1.4)m SWD+2.1FB		Volume provided:25 KL	
		Size: 5mx4mx1.3m SWD+2.2 FB	
		<b>Air requirement for mixing in Equalisation Tank</b>	
		Air for mixing: 0.01 m <sup>3</sup>	
		Tank Volume : 25m <sup>3</sup>	
		Air requirement : 0.01x25x60=15m <sup>3</sup> /hr	
<b>4) BIOREACTOR</b>		<b>Bio reactor Air requirement</b>	
Flow rate :2 KL/hr		BOD loading/day :13 kgs	
F/M ratio :0.20-0.60		Kg O <sub>2</sub> required/kg BOD removal: 1.5	
Init BOD to Aeration Tank:540 mg/lit		O <sub>2</sub> transfer efficiency at 3.5 mtr level: 18%	
Outlet BOD(considering 90-95% reduction: 20 mg/lit		Percentage of O <sub>2</sub> in ir:0.21	
MLSS consideration: 4000 mf/lit		Air requirement (m <sup>3</sup> /hr) :18m <sup>3</sup> /hr	
Bio Reactor Volume required:16.25m <sup>3</sup> (effective)		<b>Aeration Grid</b>	
		Velocity (Header): 12 m/sec	
		Velocity (lateral) : 15 m/sec	
		Header size : 25 mm	
		Lateral size : 25 mm	
		<b>Diffusers</b>	
		Capacity: 10m <sup>3</sup> /hr each	

Bio Reactor Volume provided: 24m <sup>3</sup>	Total Nos of diffusers required: 18/10=1.8
Side water depth : 3.0 m <sup>3</sup>	Total Diffusers Provided: 4 Nos.
Size provided: 2m x 4m x 3m SWD + 0.5 FB	

<b>5) Secondary Tube Settler</b>	<b>6) Supernatant Sump</b>	<b>7) Mechanical Filter Press</b>
Overflow rate : 50m <sup>3</sup> /m <sup>2</sup> /day	Flow rate: 2kl/hr	Required for sludge dewatering:
Flow rate : 25m <sup>3</sup> /day	Retention Time: 1 hr	Sludge to be waste(P <sub>x</sub> )= 0.25x25x(540-20)/1000=3.25 kg
Surface of Area required : 0.5m <sup>2</sup>	Tank Volume required: 2 kl	Considering 1040kgs/m <sup>3</sup> Sludge Density total Sludge Volume.
Size provide: 1m x 1.5 m	Tank Volume provided: 3.9 kl	Total sludge volume: 0.003125KL/Day
Side water depth : 1.5 m	Size: 1.5m x 1.3m x 2.0m SWD + 1.5 m FB	Sludge consistency after filter press : 40%
Volume provided : 3 KL		Total Sludge Volume after Filter press: 0.0078 KL/day = 7.8 Ltrs/day
Retention Time provided: 1.5 hrs	<b>Pressure Feed Pump</b>	Time required for one batch: 3 hrs.
Size provided: 1m x 1.5m x 1.5m SWD + 1.0 FB	Capacity: 2 KL/hr @ 36 MLC	No. of batches considered/day : 3 Nos
<b>Tube Module</b>	Quantity : 2 Nos (1 W + 1 S)	Filter press Volume required: 3 Lit/batch, max
Plan area of tube settler : 1.5 m <sup>3</sup>		Filter press selected: 300mm x 300 mm x 32 mm deep
Media height : 0.6m		Filter press volume/chamber: 2.1 Lit/chamber.
Media Quantity required; 0.9m <sup>2</sup>		Provided Filter Press Size: 300mm x 300mm x 32mm deep x 3 plates + 2 end plated.
Media Quantity provided : 1.0m <sup>3</sup>		Qty: 1 No.
Flute size : 40 mm		<b>Filter press feed Pump</b>
Angle of Inclination: 60° from Horizontal		Total sludge generated : 7.8 kg
		Considering 1.5% sludge consistency, total sludge generated: 7.8/0.015 = 520 Ltrs/day
		Pump capacity considering 3 cycles/d: 0.14 KL/hr
		Pump provided: 1 KL/hr @ 40 MLC
		Quantity: 2 Nos (1W + 1S)
<b>8. Sludge Sump</b>	<b>9. Dual Media filter</b>	<b>10. Activated Carbon filter</b>
Considering total sludge generation: 520 litres per day & detention time of 1 hr	Capacity : 2 m <sup>3</sup> /day	Capacity: 2 m <sup>3</sup> /hr
Sludge sump volume: 0.5 KL	Rate of filtration: 12 m <sup>3</sup> /hr.m <sup>2</sup>	Filtration rate: 12m <sup>3</sup> /hr.m <sup>2</sup>
Provided : 1 KL	Surface area required: 0.16m <sup>2</sup>	Sectional Area required: 0.16m <sup>2</sup>
Size: 1.5 m x 1.3 m x 2.0 SWD + 1.5m FB	Diameter required: 460 mm	Diameter required: 460 mm
	Height of Strait : 1000 mm	Height of straight portion: 1000 mm.
	Disc Height : 300 mm each side	Disc Height: 300 mm each side
	Size provided: 500mm dia x 1000 mm HOS	Size provided: 500 mm dia x 1000 mm HOS
<b>11. Air Source Capacity</b>	<b>12. Treated Water Sump</b>	
Air requirement for eq. tank stream I: 15 m <sup>3</sup> /hr	Flow Rate : 2 kl/Hr	
Air requirement for Bio Pack Tank : 18m <sup>3</sup> /hr	Retention time : 8 hrs	
Total requirement : 15 + 18 = 33m <sup>3</sup> /hr	Tank Volume Required : 16 kl	
Provided: 60m <sup>3</sup> /hr @ 4500 mm WC	Tank volume provided: 25 kl	
Qty : 2 Nos (1 W + 1 S)	Size: 4.0m x 2.0m x 3.2 m SWD + 0.3 m FB	
<b>Disinfection System Dosage</b>	Treated Sewage Transfer	
<b>Specified (avg) - 3 ppm</b>		
Qty : 2 Nos (1W + 1S)	Capacity : 2 KL/hr @ 40 MLC	
Chlorine required: 3x25/1000 = 0.075 kgs/day	Quantity : 2 Nos (1W + 1S)	
NaOCl solution (7% CIZ content) = 0.075/.07 = 1.07 LPD		
Tank for day storage = 1.07 liter		
Dosing Pump Capacity: 0-4 lph		

**Annexure B**

PRICE BID :- ( To be submitted in Envelope –II)

**Annual Maintenance Contract FOR WHOLE SEWAGE TREATMENT PLANT**

(RATES SHOULD BE INCLUSIVE OF ALL TAXES)

Sr.No.	Description of work	Rate for Sewage treatment plant & Water treatment plant to be quoted in figures & in words	
1	Comprehensive Annual Maintenance Contract for whole sewage treatment plant. scope of work mentioned in the tender document, Annexure – II	In figures	In words

Signature and seal of contractor

**Declaration to be furnished by the Tenderer.**

DECLARATION I, \_\_\_\_\_ Son/Daughter/Wife of  
Shri \_\_\_\_\_ Proprietor/ Director/ Authorized Signatory of  
the Company / Firm, mentioned above, is competent to sign this declaration and execute this tender  
document; I have carefully read and understood all the terms and conditions of the tender and  
undertake to abide by them; The information / documents furnished along with the above application  
are true and authentic to the best of my knowledge and belief. I / we am / are well aware of the fact  
that furnishing of any false information / fabricated document would lead to rejection of my tender at  
any stage besides liabilities towards prosecution under appropriate law.

Signature of authorised person

Date:

Full Name:

Rubber Seal

Place:

**Annexure-D****ORDER FOR ARRANGING VARIOUS DOCUMENTS IN TECHNICAL BID  
(CHECKLIST) (Unconditional acceptance of Terms and conditions of the tender)**

( Pl use separate sheet for providing complete inform)

Pl. Tick

Sr.No	Criteria	Vendor Response (Yes/No)	Page No
1	Registration Certificate of the firm/proprietorship		
2	Copy of PAN/TIN No. and Service Tax number.		
3	Copies of Income Tax Return filed for the last two financial years		
4	The firm/agency/contractor should have the experience of rendering their services for maintaining of similar works i. e. comprehensive maintenance of similar Sewage/water Treatment Plant along with allied accessories etc. for the complete plant in any Government Sector or large reputed Private Sector enterprise, during the last two years satisfactorily. Necessary relevant documents to this effect to be enclosed		
5	Earnest Money Deposit (EMD) of Rs.8,000/- in the form of Demand draft/ Banker's Cheque of any scheduled bank drawn in favour of Director, CDTL, Mumbai ". No interest shall be payable by the Institute on EMD. Successful tenders in the event of the contractor failing to comply with any provision of the contract, EMD/Security Deposit shall stand forfeited.		
6	Original Copy of the declaration terms and conditions in Tender Document with each page duly signed and sealed by the authorized signatory of the firm in token of their acceptance		

Seal & Signature