TENDER DOCUMENTS

FOR

Supply of experienced personnel for preventive checking & maintenance jobs of Natural Gas Booster Compressor, Process Air Compressor, Process Refrigeration Compressor, Primary Reformer ID fan and FD fan drive turbine and Cooling Tower Pump drive Turbine in Ammonia – III at BVFCL Namrup.

NIT No.: N-III/Mech-5/Cont-873/199 DTD-07.06.2016



BRAHMAPUTRA VALLEY FERTILIZER CORPORATION LIMITED AMMONIA-III MECHANICAL DEPARTMENT

SCOPE OF WORK:

Scope of work shall include but not limited to the following:

Equipr	Equipment : Natural Gas Booster Compressor (NGBC)				
SI					
No.	Description of Job				
	Turbine				
	Both side Journal Bearing/ Thrust bearing are to be checked/cleaned and may be replaced				
1	if required.				
2	Coupling between turbine to 2 MCL458 to be checked, cleaned and boxed up.				
	Compressor				
	Both side Journal Bearing/ Thrust bearing between 2MCL 458 and 2 BCL 408 are to be				
1	checked/cleaned and may be replaced if required.				
	Opening of Couplings between turbine and MCL 458 & 2BCL 408 including removal of				
2	coupling hubs and subsequent box up after maintenance.				
	Both side oil seal check up/Rectification jobs of 2 BCL 408 to be done and may be				
3	replaced with spare seal if required.				
Equipr	ment : Process Air Compressor(PAC)				
SI					
No.	Description of Job				
	Compressor				
	Checking/Rectification of LP compressor bearing on both sides along with all the coupling				
1	assembly to be checked and cleaned.				
2	Checking and rectification of HP compressor bearings and subsequent boxing up.				

Equip	Equipment: Process Refrigeration Compressor(PRC)					
SI						
No.	Description of Job					
	Turbine					
1	All bearings be checked, cleaned and boxed up after necessary rectification.					
2	Coupling between turbine and compressor to be checked and cleaned.					
	Compressor					
1	All bearings are to be checked and cleaned and boxed up with replacement if required.					
2	Both seals to be checked					

Equipment: Primary Reformer ID fan and FD fan drive turbine					
SI No.	SI No. Description of Job				
	Turbine				
	ID & FD fan turbine of Primary Reformer				
1	Turbine, gearbox bearings to be checked and cleaned.				
2	Coupling between fan and gearbox to be checked and cleaned				
3	Coupling between turbine and gearbox to be checked and cleaned				

Equip	Equipment: Cooling Tower Turbine				
SI					
No.	Description of Job				
	Turbine (2nos)				
1	Turbine bearings to be checked and cleaned. (Both turbine)				

BREIF DESCRIPTION OF THE EQUIPMENTS:

Natural Gas Boo	ster Compressor (NGBC)
Compressor:	Turbine:
Make: M/s BHEL Type: 2 MCL 458+ 2 BCL 408 RPM: 10200 Bearings: Journal bearing: Type: Tilting pad Make: M/s PINI Italy Dia- Ø 90 mm, L/D ratio: 0.777 Area: 6300 mm2 Thrust bearing: Type: Tilting pad Make: M/s Kingsburry	Make: M/s BHEL Type: NK 25/28/12.5-3 RPM: 10200 Power Output: 2525 KW Journal baring: Type: Multi Wedge Make: M/s MGF Area: 100.5 cm2 Thrust bearing: Type: Mitchell Make: M/s BHEL Area: 11800 mm2
Area: 206.46 mm2 Pocess Air	Compressor(PAC)
Compressor:	Turbine:
Make: M/s MANNESMANN DEMAG AG Type: 10 MH7C(LP) +06 MH4A(HP) RPM: LP- 9409/ HP-15214 Bearings: Journal bearing: Type: Tilting pad Make: M/s DEMAG Dia- LP-Ø 120 mm, HP- Ø 60 mm L/D ratio: 0.5 Area: 1800 mm2 Thrust bearing: Type: Mitchel Make: M/s Demag Area: LP-15200 mm2/HP- 3800 mm2	Make: M/s SIEMENS Type: NK 32/36/16-3 DU-180 RPM: 9409 Power Output: 4995 KW Bearings: Journal bearing: Type: Four lobe Dia- Ø 100 mm-Front side Ø 125 mm- Rear Side Thrust bearing: Type: Tilting pad/16 nos
Process Refrigera	tion Compressor(PRC)
Compressor:	Turbine:
Make: M/s Kobe Steel Ltd. Type: VS 407B RPM: 10810 Bearings: Journal: Type: Tilting pad Dia: Ø 60 mm Thrust bearing: Type: Tilting pad	Make: M/S Shin Nippon Machinery Co. Ltd. Type: V 25.5 Condensing turbine RPM: 10810 Power Output: 3483 KW Bearings: Journal Type: Four lobe Dia: Ø 90 mm(Front/Rear side) Thrust bearing: Type: Tilting pad

Primary Reformer ID fan and FD fan drive turbine					
ID fan drive turbine	FD fan drive turbine				
Make: Triveni Engineering and Industries Ltd Type: 400 mm Single stage back pressure type/SI No-40044 Power Output: 825 BHP RPM: 6450	Make: Triveni Engineering and Industries Ltd Type: 400 mm Single stage back pressure type/SI No-40045 Power Output: 825 BHP RPM: 6450				

Cooling Tower Turbine

Turbine

Make: M/s Triveni Turbine Limited. Bangalore Type: 18"/22" High pressure, condensing turbine

TEW Job No. : T 1327

RPM: 5880 Bearings: Journal

Type: Sleeve type

Thrust bearing:

Type: Tilting pad/8nos

I SPECIAL TERMS & CONDITIONS:

1. CONTRACTOR'S SCOPE:

- i) Mobilization and demobilization of required manpower (including supervisory staff)
- ii) Group Insurance & PPE for working personnel.
- iii) Submission of job completion report for each job with full details.

2. BVFCL'S SCOPE:

BVFCL shall provide following materials/facilities free of cost for carrying out the job as per scope:

- 2.01 All required spares for execution of the work.
- 2.02 All tool s and tackle required shall be under BVFCL scope
- 2.03 BVFCL shall give prior information to the party for mobilization purpose.
- 2.04 Work fronts will be adequately cleared for expeditious execution of work.
- 2.05 Workshop facility, to the extent possible.
- 2.06 Material handling equipments like mobile crane, forklift etc. with operator.
- 2.07 To & fro air/rail (Economy Class/II AC) fare for travel of Engineer & technicians will be reimbursed at actual subject to production of documentary evidence.
- 2.08 To & fro conveyance facility from Dibrugarh Airport to BVFCL guest house shall be provided free of cost.
- 2.09 Lodging & fooding facility for your Engineer & technicians at BVFCL guest house shall be provided free of cost.
- 2.10 Local conveyance from BVFCL guest house to site and back shall be provided free of cost.
- 2.11 Personal Protective Safety Equipments like Safety Goggles, Face Shields, Safety Belts, Hand Gloves etc.
- 2.12 Free medical facility to be offered to your workmen in case of accidents / injuries while at work shall be limited to provision of first aid only.

3. TIME SCHEDULE/COMPLETION PERIOD:

- 3.1. Mobilization of manpower shall be done immediately on our intimation by Fax / Telephone / E-mail.
- 3.2. The total completion period for the entire work will be **12 (Twelve) days** from the date of site clearance excluding mobilization period. Subject to and depending on the availability of work fronts the executing agency will be intimated adequately in advance to enable site mobilization.

II GENERAL TERMS & CONDITIONS:

- 1. Interested Tenderer, after studying all the tender documents carefully, may obtain necessary clarifications, if any, in writing before tendering. The Contractor should acquaint himself with the site conditions prevailing at the place of work. Submission of tender implies that the Tenderer has obtained all the clarifications required and that he shall be deemed to have apprised himself of all the ground conditions at site including weather conditions. No claim on ground of want of knowledge in this respect will be entertained. No claim for any extra charges consequent upon any misunderstanding or otherwise will be entertained.
- 2. The following tenders will be liable to be summarily rejected:
 - 2.1. Tenders submitted by Tenderer(s) who resort to canvassing
 - 2.2. Tenders which do not fulfill any of the conditions laid down in the Tender Documents or are incomplete in any respect.
 - 2.3. Tenders not accompanied by the required details / Earnest Money Deposit
 - 2.4. Tenders received late / delayed

- 3. If the Tenderer has relations, whether by blood or otherwise, with any of the employees of BVFCL he must disclose the relations in the Form of Declaration attached, at the time of submission of Tender, failing which BVFCL shall reserve the right to reject the Tender or rescind the Contract.
- 4. The execution of the work may entail working in all the site and weather conditions and no extra rate will be considered on this account. The Contractor may have to carry out the jobs working round the clock as per BVFCL's requirement to be decided by the Engineer-In-Charge and the Contractor should take this aspect into consideration while formulating his rates to be quoted. No extra claim / overtime shall be paid on this account.

5. Validity of Contract:

- 5.1 The job shall be taken up during annual turnaround of N-III group of plants. Normally, a Notice of 10 days would be given for mobilizing of manpower for site. But the party should be able to mobilize at a very short notice, if required. However the contract shall remain **valid for a period of 12 (Twelve) months** reckoned from the date of its award.
- 6. **Escalation in Rates:** The **rates quoted will remain firm till the currency of the contract** and will not be subjected to escalation irrespective of any increase whatsoever in labour or material cost etc.
- 7. **Earnest Money Deposit**: The Tenderer should make a deposit of `. 16515/-(Rupees Sixteen thousand five hundred fifteen) only as Earnest Money in the form of an A/c Payee Demand Draft, drawn on State Bank of India in favour of "Brahmaputra Valley Fertilizer Corporation Ltd., Namrup" payable at Namrup Branch (Branch Code: 0223). Earnest Money Deposit should accompany the tender in a separate envelope without which tender will not be opened and it will be considered as rejected.

Bank guarantee as E.M.D in place of Demand draft shall not be entertained.

NSIC registered companies shall produce valid copy of registration certificate.

- 8. Security Deposit-Cum-Performance/Workmanship Guarantee: For due and faithful execution and performance of the contract the contractor shall provide the Owner with financial guarantee in the form of a Bank Guarantee, issued by any Nationalized Bank, for sum equivalent to 10% of the total contract value within a period of 30 days of placement of work order. The Bank Guarantee so executed shall be valid till the expiry of defect liability period with provision of claim period of up to 6 months. No interest shall be paid on E.M.D. and S.D.
- 9. If the Contractor fails to fulfill his obligations under the contract BVFCL shall have the right to get the work done by the agency other than the Contractor, at the Risk and Cost of the Contractor, till the expiry of the period of contract.

10. Termination of Contract:

If the Contractor becomes unable to execute the work, any loss incurred by the company in this respect will be to the Contractor's account. The company may also **terminate the contract after giving a 1(One) day's notice in writing**, if, in its opinion, the work under the contract is not being executed to its satisfaction:

or

10.1. If, at any time, the Contractor makes default in proceeding with the work / job with due diligence and continues to do so after giving in writing a notice of 1 day by the Engineer-In-Charge,

or

10.2. If the Contractor persistently disregards the instructions of Engineer-In-Charge or fails to take steps to employ competent or additional staff required or commits default in complying with any of the terms and conditions of the contract and does not remedy it or does not take steps to remedy it within 3 days after notice in writing is given to him by the Engineer-In-Charge

10.3. If the Contractor assigns, transfers or sublets or attempts to assign, transfer or sublet the entire work or any portion thereof without the prior written approval of the accepting authority

or

10.4. If the Contractor abandons the contract

or

10.5. If the Contractor becomes bankrupt / insolvent.

BVFCL shall have right to get the leftover jobs done by alternative agencies at the **Risk & Cost of the Contractor** besides other legal remedies available to it.

11. Terms of Payment:

- 11.1 100% of value of completed work shall be released, after successful completion of the job and raising of invoice by the party in triplicate subject to recovery if any. However, 100% payment is subject to fulfillment of Security Deposit-Cum-Performance/Workmanship Guarantee as in noting at clause no 8.00 of General Terms & Conditions.
- 11.2 All the statutory taxes and duties shall be paid extra, as applicable, to tenderer / deducted from tenderer's bills, as the case may be, at usual and prevailing rates. Income Tax however shall be deducted from bills.
- 11.3 Service Tax, if and as applicable, shall be paid at usual and admissible rate on production of copy of valid Service Tax Registration Certificate issued by appropriate Excise Authority.
- 12. Tax Deduction at Source: Statutory deduction on account of Income Tax / Works Tax & other Taxes on Works Contracts, if and as admissible, shall be made from the Contractor's bills at the prevailing rates, as per Income Tax Laws / Commercial Tax Laws in force in the state of Assam, at the time of release of payment to the Contractor.
- 13. Engineer-In-Charge: The Engineer In-Charge shall have general supervision and direction of the work. He shall have the authority to stop the work whenever such a stoppage may be necessary to ensure proper execution of the contract. He shall also have authority to reject all work, direct the application of forces to any portion of the work as, in his judgment, is required and order force increased or diminished and to decide disputes which arise in the execution of the work. The Engineer-In-Charge reserves the right to suspend the work or part thereof at any time and no claim whatsoever on this account will be entertained. In case of any dispute the Contractor may appeal to the Engineer-In-Charge whose decision shall be final and binding. The decision of the Engineer-In-Charge of Brahmaputra Valley Fertilizer Corporation Limited shall be final as regards all matters relating to this Tender including those for determining the category of work with reference to material of an item not mentioned in the Scope of Work.
- 14. Loss to Plant during Execution: Any damage or loss caused to the plant, equipment etc., during execution of this contract by the Contractor's employees will be made good by the Contractor at his own cost and risk.
- 15. The Contractor shall abide by all the Acts / Labour Laws related to PF, Wages, Holidays, Leaves, and Overtime etc. The Contractor shall be required to comply with all statutory provisions, from time to time, during the tenure of the contract.
- 16. **Safety Regulations:** The Contractor shall strictly follow and abide by all the Fire and Safety Regulations of BVFCL. Before starting maintenance work the Contractor shall consult BVFCL's Safety Officer or the Engineer-In-Charge, if the Safety Engineer is not available, and familiarize himself with such regulations copies of which will be furnished to him by BVFCL on request. He shall be responsible for, and must rectify/make good, to the satisfaction of the BVFCL, any loss or damage, due to fire, caused to any portion of the work to be done under the agreement or to any of the BVFCL's existing property.

17. Force Majeure: The terms and conditions mutually agreed upon with respect to this agreement shall be subject to Force Majeure. Neither the Contractor nor BVFCL shall be considered to be in default in the performance of their obligations contained therein, if such performance is prevented or delayed or restricted or interfered with by reasons of War, Hostilities, Revolution, Civil Commotion, Strike, Epidemic, Accident, Fire, Cyclone, Wind, Flood, Earthquake, Regulation or Ordinance or Requirement of any Government or any Sub-Division thereof, or Authority or Representative of any such Government and / or due to Technical Snag/Reasons, or any other Act whatsoever, whether similar or dissimilar to those enumerated, beyond reasonable control of the parties hereto, or because of any Act of God. The party so affected, upon giving prompt notice to the other party, shall be excused from such performance to the extent of such prevention, delay, restriction or interference for the period it persists, provided that the party so affected shall use its best efforts to avoid or remove such causes of non-performance, if possible, and shall continue performance hereunder with the utmost dispatch whenever such causes are removed. Should one or both parties be prevented from fulfilling their contractual obligations by a state of Force-Majeure lasting continuously for a period of three months, the two parties to the contract shall meet and decide about the future course of action for implementation of the contract.

18. Conciliation & Arbitration:

- 18.1 Except otherwise provided in this contract all matters, questions, disputes, differences whatsoever which shall at any time arise between the parties hereto touching the construction, meaning or operation or effect of the contract or out of matters related to the contract or breach thereof, or the respective rights or liabilities of the parties, whether during or after completion of the work or whether before or after termination shall be referred to arbitration in accordance with the ICADR Arbitration Rules, 1996. Under such case, authority to appoint Arbitrator(s) shall be the 'International Centre for Alternative Dispute Resolution'.
- 18.2 The Arbitration proceedings shall be governed by the ICADR Arbitration Rules, 1996.
- 18.3 Both the parties shall continue to fulfill their respective obligations under the contract during the Arbitration proceedings.
- 19. The contract shall be **governed by and construed in accordance with the Laws of India** and provisions of various Labour Laws like Factories Act 1948, Industrial Disputes Act 1947, Contract Labour (Regulation & Abolition) Act 1970, Maternity Act 1961, Workmen's Compensation Act 1923, Payment of Wages Act 1936, Minimum Wages Act 1948, Employee's Provident Funds & Misc. Provisions Act 1952, Payment of Bonus Act 1965, Payment of Gratuity Act 1972 etc. and any other Law / Legislation which may be applicable from time to time (The above Acts are only illustrative and not exhaustive).
- 20. **Jurisdiction:** Notwithstanding any other court or courts having jurisdiction to try any civil suit arising out of this contract it shall be only the court of competent jurisdiction at Dibrugarh alone (where the contract shall be deemed to have been entered into) to try such suits to the exclusion of all other courts of the country and all causes of action in relation to the contract will therefore be deemed to have arisen within the **Jurisdiction of the Court at Dibrugarh (Assam) only.**
- 21. Agreement: The Contractor's responsibility under this contract will commence from the date of issue of the Letter of Intent/Work Order. The Tender Documents, Other Documents exchanged between the Tenderer and BVFCL, the Letter of Acceptance and Work Order shall constitute the Contract. The successful Tenderer shall have to execute an Agreement with Brahmaputra Valley Fertilizer Corporation Limited, Namrup on a non-judicial stamp paper costing Rs.100.00 within 10 (Ten) days of the date of receipt/ acceptance of the Work Order or before commencement of work whichever is earlier. The cost of stamp paper shall be borne by the Contractor. The Agreement to be executed will be in the Agreement Form to be specified by Brahmaputra Valley Fertilizer Corporation Limited. Namrup.

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	INFORMATION REGARDING TENDERER PROFORMA NO						
A) In	A) In case of individual						
i)	Name of Business						
ii)	Whether his Business is registered						
iii)	Date of commencement of business						
iv)	Whether he pays Income-Tax over Rs. 10,000/- per year						
B) In	case of Partnership						
i)	Name of Partnership						
ii)	Whether the Partnership is registered						
iii)	Date of establishment of firm						
iv)	If each of the partners of the firm pays Income-Tax over Rs. 10,000/- a year and if not which of them pays the same						
C) In	case of Limited Liability Company or Co	ompany Limited by Gua	rantee				
i)	Amount of paid up capital						
ii)	Name of Directors						
iii)	Date of Registration of Company						
iv)	Copies of the last two years' Balance Sheets of the Company						
D) In	come Tax						
i)	Income Tax Clearance Certificate for previous years.						

(SIGNATURE OF TENDERER WITH SEAL)

Name	:	
Dated	:	
Place	:	

DETAILS OF EXPERIENCE	PROFORMA NO 2

Tenderer shall give information of similar works done during the **past seven years** strictly as per proforma given below:

Sl. No.	Full particulars of similar work carried out by Tenderer	Value of Contract	Contract ed Completi on time	Actual completio n time	Year of completio	Name & Postal Address of Client

NOTE:-

- 1. Similar work means checking & maintenance of High speed rotary compressors and Turbines in the RPM range of 9000-16000 in Government / Semi Government / other reputed organizations.
- 2. Documentary evidence of all the above stated work/jobs to be furnished by the tenderer.

Certified that the above information is correct.

Name	:	
Dated	:	
Place	:	

(SIGNATURE OF TENDERER WITH SEAL)

Tenderer shall furnish the details of their present commitments strictly as per this Proforma.

Sl. No.	Name of work	Name & address of Client with the name of person under whom the work is being executed	Contract Value	Brief description of work	Contracte d date of completio n with the date of start of work	% age complet ed as on date	Expected date of completio n of balance work with approx. value of such balance work

Certified that the above information is correct.

	((SIGNATURE OF TENDERER WITH SEAL)
Name	:
Dated	:
Place	:

INFORMATION REGARDING MANPOWER WHICH THE TENDERER PROPOSES TO USE FOR THIS WORK

PROFORMA NO. - 4

Sl. No	Name	Designation	Qualification	Yrs of Experience
		_		

Certified that the above information is correct.

Name	:	
Dated	:	
Place	:	

(SIGNATURE OF TENDERER WITH SEAL)

Ref: N-III/MECH-5/Cont-873

PROFORMA: SCHEDULE OF WORK, QUANTITY & RATE(S)

<u>Job Name:</u> Supply of experienced personnel for preventive checking & maintenance jobs of Natural Gas Booster Compressor, Process Air Compressor, Process Refrigeration Compressor, Primary Reformer ID fan and FD fan drive turbine and Cooling Tower Pump drive Turbine in Ammonia – III at BVFCL, Namrup.

Manpower Requirement:

Engineer : 02 nos
 Technician : 04 nos

<u>SI.</u> No.	<u>Description</u>	<u>Nos</u>	Unit Rate (`)
1. (a)	Per diem rate of Engineer (8 hrs basis)	02	
(b)	Overtime rate of (beyond 8 hrs) per hour		
2. (a)	Per diem rate of Technician (8 hrs basis) 04		
(b)	Overtime rate of (beyond 8 hrs) per hour		
3.	Service Tax		%

Note:

- 1. To & fro air/rail (Economy/AC II) fare for travel of manpower will be reimbursed at actual subject to production of documentary evidence.
- 2. To & fro conveyance facility from Dibrugarh Airport to BVFCL guest house shall be provided free of cost.
- 3. Lodging & fooding facility for your manpower at BVFCL guest house shall be provided free of cost.
- 4. Local conveyance from BVFCL guest house to site and back shall be provided.
- 5. The quoted rates shall be valid for all days of the week including Sundays and holidays if any. No overtime shall be paid for normal working hours on Sundays & holidays (ie job done on these days will be treated as normal working day)
- 6. For each shift, first 08 hours shall be considered as normal working hours and beyond that shall be considered as overtime. For Day shift, 8:00 AM to 5:00 PM (including 1 hour lunch time) shall be normal working hours.
- 7. Service tax will be extra as applicable.

In words (Ru	upees) only.
Remarks, if a	any		
1)		2)	
Signature of	the tenderer:	Date	
Party's name	:		
Address:			
SEAL:			

(Part of Contract)

DECLARATION FORM (To be submitted in Envelop - II) Ref. No.: Date: To The Addl. Chief Engineer (Mechanical), Amm-III & CPP BVFCL, Namrup Sub.: Supply of experienced personnel for preventive checking & maintenance jobs of Natural Gas Booster Compressor, Process Air Compressor, Process Refrigeration Compressor, Primary Reformer ID fan and FD fan drive turbine and Cooling Tower Pump drive Turbine in Ammonia -III at BVFCL, Namrup Dear Sir, I/ We have read the conditions of tender attached hereto and agree to abide by such conditions. I/We offer to do the job as per attached Schedule of Rates and in accordance with the specifications, standards and instructions in writing of the Engineerin-charge of M/s. BVFCL and hereby bind myself/ ourselves to complete the work schedules and progress of work. I/ We further agree to abide by the conditions of contract and agree to carry out all work within the specified time in accordance with specifications of materials and workmanship and instructions referred to in the Notice Inviting Tender. In case of acceptance of the tender by Brahmaputra Valley Fertilizer Corporation Limited, Namrup, I/ we bind myself/ ourselves to execute the contract as per the conditions mentioned in the tender documents, failing which we shall have no objection to the forfeiture of the Earnest Money lodged with BVFCL, Namrup. Thanking you. Yours faithfully,

Address

For M/s. : -----(Signature of Contractor/ Tenderer with SEAL) _____

(Part of Contract)

DECLARATION FORM (To be submitted in Envelop - II)

THE FOLLOWING DECLARATION TO BE SIGNED BY CONTRACTOR

Sl. No.	DESCRIPTION	YES/NO. (If Yes, give the following details)		
		Name and Designation of the Employee	Place of posting	Relation with the Employee
1	If a Tenderer has relations whether by blood or otherwise with any of employees of BVFCL (Owner), the Tenderer must disclose the relation at the time of submission of Tender, failing which BVFCL shall reserve the right to reject the Tender or rescind the Contract.			
			D E E	Dag No
2	P.F. Registration No. of the Contractor to be intimated along with Documentary proof thereof			leg. Ivo.
3	PAN No. of the Contractor to be intimated along with Documentary Proof thereof			V No.
4	VAT Registration No. of the Contractor to be intimated along with Documentary Proof thereof			Reg. No.
5	Service Tax (S.T.) Registration No. of the Contractor to be intimated along with Documentary Proof thereof			Peg. No.

		(Signature of Contractor/ Tenderer with SEAL)
	Address:	
Place :		
Date :		