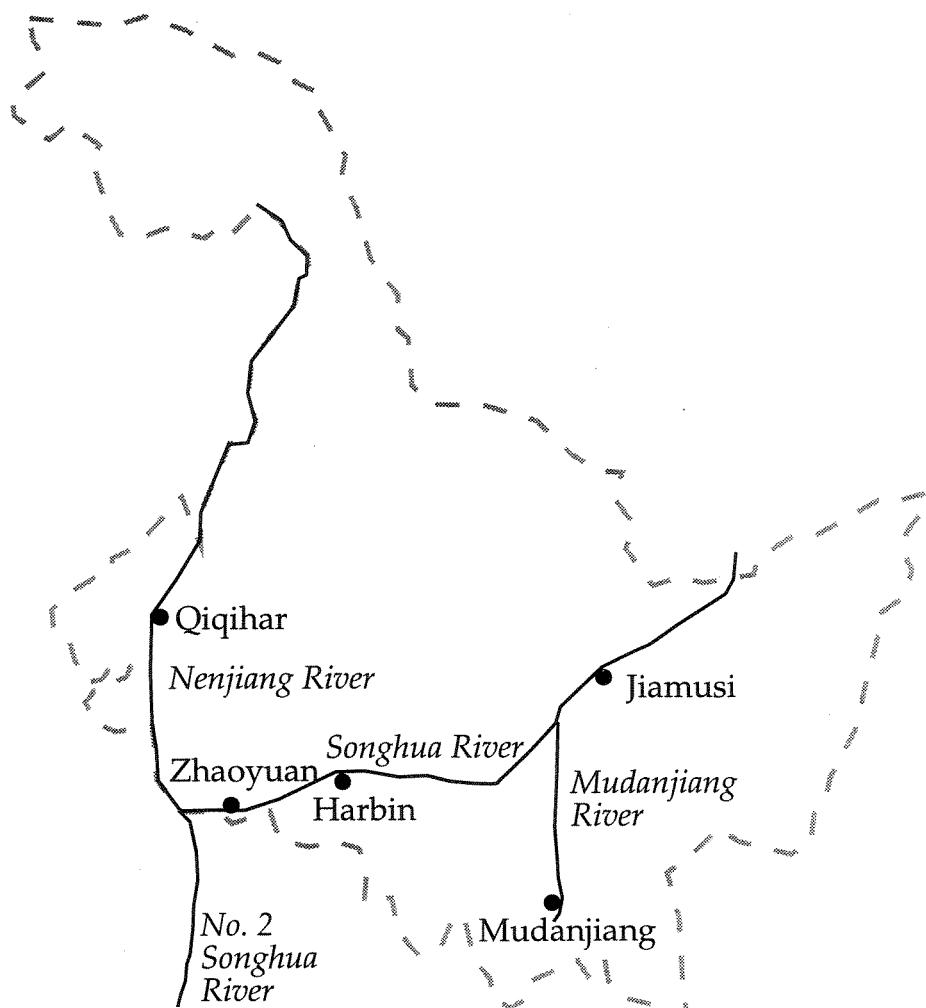


REPORT SNO 3641-97

Summary Report

Surveillance of
Water Quality in the
Songhua River System in
Heilongjiang Province,
P.R. of China

Harbin, Heilongjiang 26
February - 3 March 1997



Norwegian Institute for Water Research

REPORT

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Abstract This summary report describes the discussions and the commitments made, within the project "Surveillance of Water Quality in the Songhua River System in Heilongjiang Province, P.R. of China", during meetings in Harbin, Heilongjiang 26 February- 3 March 1997.
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1. ENSIS 2. Overvåking 3. Vassdrag 4. Prosjektmøte	1. ENSIS 2. Surveillance 3. Water system 4. Project meeting

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Bente M. Wathne
Bente M. Wathne

Head of Research Department

SUMMARY REPORT

**Harbin Environmental Protection Bureau (H/EPB),
Harbin 26 February-3 March 1997**

Place: Premises of the Heilongjiang Province Environmental Protection Agency

Meeting between:

The Harbin Environmental Protection Bureau (H/EPB) and the

Norwegian Institute for Water Research (NIVA)

Participation

H/EPB

Mr Wang Jing Chun, Vice Director

Mr Guo Yuan, Division Chief

Ms Chen Aifeng, Vice Director of HEMCS

Mr Chen Jiahou, Vice Director of Control Lab of HEMCS

Ms Wu Yue Hui, Project Officier

Mr Chen Yong, Interpreter

Ms. Li Xiangju, Vice Director

NIVA

Ms Bente Wathne, Project leader

Ms Kjersti Dagestad, Scientific adviser

Mr Stig A. Borgvang, Scientific adviser

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Annex 3	Sonhua River System-Water Quality Instrumentation Package
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Annex 7	List of computer equipment
Annex 8	List of project organisation

Agenda

The agenda for the visit, as suggested by H/EPB, was agreed without amendments, and is at **Annex 1**.

1. Wednesday 26 February 1997

1.1 Maps

1.1.1 Digitalised maps

NIVA/NORGIT will establish contact between the H/EPB and the Chinese Meteorological Bureau.

H/EPB will provide as many “geographical subject maps” as possible e.g. agricultural or forest coverage, settlements, river systems.

1.1.2 Basic paper copy maps

H/EPB will provide 1:500 000¹/1:1000 000 paper copy maps for the preliminary presentation of:

- industrial pollution sources (data collected by H/EPB and H/EMCS, in total about 483* pollution sources) (map 1), **by 1 May 1997**² (originally February 1997);
- personal equivalents per administrative statistical unit and from each of the 11 main cities (map 2), **by 1 May 1997** (originally September 1997);
- river systems i.e. Songhua river and its main tributaries, lakes and the relevant catchment/sub-catchments (map 3)1:1000000, **by 1 May 1997** (originally September 1997);
- monitoring stations (manual and automatic), including those where samples are taken for biological analysis, and hydrological monitoring stations (map 4), **by 15 March 1997**.
- the coverage of agricultural practices, mountain areas, forested areas etc (land coverage, map 5), **by 1 May 1997**; and
- user interests (map 6), **by 1 May 1997**.

* 483 industrial plants carry out measurements of their discharges/emissions, out of which 75 are responsible for 70% of the pollution load to water. 292 industrial plants have been identified as main pollution sources, out of which 217 have emissions only to air, 61 have emissions to air and discharges to water and 14 have discharges to water only. Less important sources to water and air (191) accounts for 30% of the total pollution load.

¹ The issue of the “1:500000 scale map” will be discussed at the meeting between SSTC and NORAD, 5-6 March 1997.

² The 70-80 main industrial pollution sources by 15 March 1997. Those of the remaining 191 industrial sources having discharges to water, by 1 May 1997.

1.2 **Monitoring data**

Water sampling

H/EPB provided a complete data set from the Foxpro data base for the 1995 monitoring year (floppy disk). NIVA expressed the wish to obtain a copy of the data from the whole monitoring period, i.e. 1988-1996, in order to enable a better scientific assessment of the quality status of the Songhua river and its tributaries.

Water flow

Furthermore **H/EPB** agreed to provide the relevant hydrological data on the water flow at the hydrological stations in 1995, **by 1 June 1997**, subject to agreement on the finances (see also section 1.2, bullet 4).

Industry (including mining activities)

H/EPB agreed to provide data on discharges and other relevant information from the industrial plants in the catchment area of the Songhua river (see also section 1.2, bullet 1), according to the notification form provided by NIVA (see Annex 6). This notification form also includes different deadlines for the various data requirements.

NIVA emphasised that it was important that H/EPB provided a list of unique identification codes for each industrial plant. The industrial plants should be marked with this code on the map. In the case of big cities with several industrial plants, the industries should only be marked once, but indicated with a number range with detailed specification on the list (e.g source 12-20). Furthermore the primary recipient for the industrial outlets should be indicated for each industrial plant.

Domestic waste water

H/EPB agreed to provide, **by 1 May 1997** (see also section 1.2, bullet 2):

- data on the personal equivalents per statistical administrative units;
- which catchments/sub-catchments³ these administrative units drain into;
- data on the number of habitants in the 11 main cities located in the catchment area of the Songhua river.

Agriculture

H/EPB agreed to provide data, **by September 1997**, on:

- the use of pesticides on the basis of the 13 sale statistics areas;
 - the use of artificial fertiliser on the basis of the 13 sale statistics areas;
 - agriculture coverage per administrative unit (by 1 May 1997); and
- a list of the most commonly used pesticides, if available (see also section 1.2, bullet 5).

³ Subject to the availability of appropriate maps NIVA, in co-operation with H/EPB, will carry out this work

Monitoring activities

H/EPB agreed to provide a map **by 15 March 1997** (see also section 1.2, bullet 4) indicating:

- the 46 monitoring points on a 1:100000 map following an agreed code in order to allow the link to the monitoring data (monitoring station code);
- the 20 hydrological monitoring stations with a special indication of the 6 main stations;
- the biological monitoring stations;
- a table which indicates the monitoring station codes and gives an overview of responsible monitoring organisation.

Furthermore H/EPB agreed to provide available data from 1996, **by 3 March 1997**, and from 1995, **by 1 April 1996**:

- invertebrates (benthic organisms), 4 times a year, at 4 stations (2 stations in 1995) to be indicated specifically on a map;
- phytoplankton (glass in water for 2 weeks, composition, growth rate, biomass).

2. Thursday 27 February 1997

2.1 *Annex to the Contract*

Ms Wathne (NIVA) presented some proposed, minor textual amendments to the contract between H/EPB and NIVA (insurance for Norwegian participants, payment, hourly rates, etc.). These proposal were accepted by H/EPB and the contract was amended accordingly (see Annex 2).

2.2 *Current situation with regard to the running of the project*

H/EPB reported on the following points related to the progress of the project:

- with regard to the "Workshop Report" (Report SNO 3615-97) H/EPB confirmed that the monitoring station with on-line system in the Mudanjiang will be at the drinking water plant inlet at Mudanjiang;
- a working group for the establishment of the 4 on-line monitoring stations has been set up;
- the procedure for H/EPB to honour the invoices to NIVA will be discussed at the meeting between SSTC and NORAD in Beijing 4-5 March 1997;
- the routines for purchase of instruments in the framework of the project will be clarified at the meeting in Beijing 4-5 March 1997 between SSTC and NORAD as SSTC wants NORAD to agree that SSTC commission a Chinese import/export company to deal with the questions related to the importation of the equipment;
- H/EPB explained that H/EPB and local EMS will allocate additional man resources for the smooth running of the project;
- H/EPB has carried out simultaneous water quality measurements in the Songhua River System, at 46 monitoring points, as well as in the Nen jiang. "2 monitoring campaigns" has been carried out, namely 20 October 1996 and 15 January 1997.

2.3. *Hydrological Data*

Following a request from NIVA, H/EPB explained the Heilongjiang Hydrological Agency is the competent authority as regards hydrological measurements. The measurement points in the Songhua River System do not concur with the monitoring points for the chemical and biological monitoring carried out by H/EPB. However, H/EPB is in principle willing to co-ordinate such measurements on a regular basis during the chemical and biological monitoring campaigns, provided the relevant instruments are made available.

Furthermore it was agreed that NOK 140 000,- should be allocated to purchase data from the monitoring sites used by the Heilongjiang Hydrological Agency (see Annex 4). Before the data are purchased, NIVA will in each case make an assessment of the data required i.e. choice of stations and frequency.

2.4. Instrument list

The instrument list proposed by NIVA was discussed item by item. After some adjustments NIVA and H/EPB agreed on the revised instrument list which will be forwarded to SSTC for information (see **Annex 3**). After the meeting in Beijing meeting (4-5 March 1997) NIVA will start the "purchase procedure" according the future agreement between SSTC and NORAD to be made at the Beijing meeting, 4-5 March 1997.

During the discussions on the instrument list H/EPB confirmed that no on-line measurement of phosphate will take place. In view of the importance of phosphorus in the assessment of the water quality in river systems, **H/EPB undertook** to analyse the total phosphorus concentrations in the river as part of the regular monitoring programme (manual samples).

3. Saturday 1 March 1997

3.1 *Adjustment of funding*

The agreed adjustments are described in attached list "Agreed tasks prioritised for funding within the budget" (see **Annex 4**).

3.2 *Work Plan revisions*

The detailed Work Plan for 1997 was developed based on comments from H/EPB and NIVA (see **Annex 5**) and will be forwarded for information to the Beijing-meeting (4-5 March 1997).

3.3 *Maps*

H/EPB provided a copy of a map of the Heilongjiang province which will form the basis for the initial overview of data related to the Songhua river system. The NIVA project leader expressed her appreciation of the efforts made by the H/EPB.

In order for NIVA to start its assessment of the water quality status as soon as possible, it was agreed that H/EPB should send the version of the maps as they are on the 14 March 1997 to Shanghai by express delivery to the NIVA representative on the 15 March 1997 (further details to be agreed before the 15 March 1997).

H/EPB and NIVA agreed on a working procedure and time table for the further development of the map, see Annex 5 on the project planning and Annex 6 on data requirements.

4. Sunday 2 March 1997

4.1 ***Classification of water quality based on chemical measurements***

The classification of water quality is based on the following methods and data:

- the water quality is monitored approximately 8 times a year at 46 locations in the river. The monitoring takes place during three periods which represent the typical water flow pattern:
 - low flow season (January-February)
 - normal season (May and October)
 - flood season (June-September)
- the water quality is analysed based on 10 standard parameters corresponding to the current National Criteria for water quality. The parameters are listed below⁴:

-pH
-nitrate
-nitrite
-ammonia
-total phosphorus
-COD_{Mn}
-dissolved oxygen
-BOD₅
-Arsen
-Chromium (6⁺)
-Phenols

- the arithmetic yearly mean⁵ is calculated for each parameter, and the water quality class is consequently determined by “the worst parameter” (no weighting of parameters);
- the samples are taken at 1/2 meters depth both in rivers and lakes;
- lakes are classified according to the same principles as rivers

⁴ Mercury and Cadmium are sometimes included in the analysis.

⁵ The yearly arithmetic mean is calculated as the average of the three season averages ($y = \Sigma(y_1 + y_2 + y_3)/3$), where y_1 =average in low flow season, y_2 =average in normal season, and y_3 =average in flood season)

4.2 Quality assurance/ Quality Control for sampling and analysis in laboratory

H/EPB informed NIVA about

- sampling instructions/methods/procedures; and
- methods/instructions/procedures at laboratories which have been adopted by H/EPB to increase the quality of the analysed parameters.

H/EPB will provide NIVA with a description in English of the above mentioned by **1 May 1997** at the latest, based on the listing below. If needed, NIVA will specify this list further by **10 March 1997**.

Descriptions needed :

Sampling: Collection procedures (method and equipment used), field treatment of samples (preservation) and procedures for transport and storage of samples.

Laboratory: Comparison of results with other analytical methods, comparison of results with other laboratory, use of certified reference material (for instance to calibrate instruments), and use of ionic balance to control if sum cations are equal to sum anions.

5. Monday 3 March 1997

5.1 Computer equipment

On 27 February 1997 Ms Wathne handed over a quote from NORGIT for computer equipment to be purchased. After discussion and some clarifications, H/EPB agreed and signed the revised list of computer equipment (see Annex 7).

5.2 Contact persons

H/EPB and NIVA revised the provisional list of project organisation. The revised version is at Annex 8.

5.3 Adoption of the Summary report of NIVA's February-March 97 visit to Harbin

By signing this report, Ms Bente Wathne (NIVA) and Mr Guo Yuan, Division Chief (H/EPB) agree:

- that the report is a fair summary of the work carried out during NIVA's February-March 97 visit to Harbin;
- on the content of the summary report and the various commitments therein.

Beijing 5 March 1997

Ms Bente Wathne, NIVA

Mr Guo Yuan H/EPB

AGENDA FOR NORWEGIAN VISITORS IN HARBIN

DATE	TIME	PLACE	ACTIVITIES	PARTICIPANTS
Feb. 25th Tue.	16:50 18:00 18:30	Airport Swan Hotel Restaurant	Meet the Norwegian visitors Make accomodations for the visitors Have a dinner	Mr. Guo Yuan, Mr. Chen Yong Same as above plus 3 visitors Same as above
Feb. 26th	09.00 09.15 12.00 13.30 18.00	Meeting room Same as above Dining H. Meeting room Restaurant	The directors of H/EPB greet the Norwegian visitors 1. Review of the project progress 2. Reconfirm the numbers and sites for the on-line water quality station 3. Reconfirm the adjustment of funds Have a working lunch 1. Clarify the time and numbers of people to visit Norway 2. Discuss about annexes to the Contract 3. Reconfirm deadlines for the tasks in 1997 H/EPB invite the Nor visitors for dinner	Mr. Li Weixiang Chief, Mr. Wang Jingchun Deputy Chief, visitors Mr.Warg Jingchun, Mr. Guo Yuar, Mr.Chen Aifeng, Ms.Wu Yue Hui Mr.Chen Jiahou, Mr.Chen Yong 3 Norwegian visitors Same as above Same as above Same as above Same as above

DATE	TIME	PLACE	ACTIVITIES	PARTICIPANTS
Feb. 27th Thur.	09:00	Meeting room	1.Discuss about on-line station & mobile station for water quality item by item 2.Discuss about the mobile station for air quality item by item Have a working lunch	Same as those yesterday
	12:00	Dining H.	1.Discuss about the information tech. item by item	Same as above
	13:30	Meeting room	The meeting for today is over	
	17:30			
Feb. 28th Fri.	09:00	Meeting room	Mr. Li Weixiang Chief of H/EPB greet the representatives from Norwegian Embassy and NORAD	Mr.Li Weixiang, Mr.Wang Jingchun, Mr. Guo Yuan, Mr.Chen Aifeng etc. the Norwegian visitors from NIVA, the official representatives
	10:00	Meeting room	Discuss about data and informations 1.Continue the morning discussion 2.Review of the issues discussed during the past two days	Same as those yesterday
	13:30	Same as above	Ms.Ma Vice Governor invites the Norwegian guests for a banquet	Ms.Ma Shuijie vice governor Ms. Li Xiangja, Mr.Wang Jungchun the leaders from II/SSTC
	17:30	Swan Hotel		

DATE	TIME	PLACE	ACTIVITIES	PARTICIPANTS
Mar. 1st Sat.	09:00 12:00 13:30 17:30	Meeting r. Dining H Meeting r.	Discussing about the details Have a working lunch Go on discussing The discussion for today is over	Same as the working group Same as above
Mar. 2nd Sun.	09:00 11:30 18:00	Meeting r. Harbin Swan Hotel	Exchange comments for the minutes of the workshop Go sightseeing and shopping Send 3 Nor.visitors back to the hotel	Same as above Mr. Chen Yong and 3 Nor.visitors
Mar. 3rd Mon.	10:00 12:00 16:30 17:50	Meeting r. Dining H. H/EPB Airport	Finalise the minutes for the workshop and make workshop report Have a working lunch Head for the Airport 3 Nor. visitors fly to Beijing	Same working group Same as above, Mr. Li Chief shows up Mr. Guo Yuan, Mr. Chen Yong 3 Nor. visitors

ANNEX 2

ANNEX TO THE CONTRACT

between

**THE NORWEGIAN INSTITUTE FOR WATER RESEARCH
(NIVA),
NORWAY**

and

**HEILONGJIANG ENVIRONMENTAL PROTECTION BUREAU
(H/EPB),
CHINA**

regarding

Surveillance of Water Quality in the Songhua River, Heilongjiang Province, China (“the Project”)

The following formulations in the contract between HEPB and NIVA, of 21 November 1996 (NORAD Project no. CHN 017) are hereby modified as stated below:

- Section 3.1, after the last bullet point.

The following shall be added as a new bullet point:

“make sure the Norwegian personnel is properly insured to cover possible liabilities and damage that might occur during their stays in China”.

- Statement in Section 6.1

“6.1 NIVA can submit requests for payments from the Grant as follows:”

is changed to:

“6.1 The annual amounts to be used for the project from the Grant are as follows:”.

ANNEX 3

Songhua River System - Water Quality Instrumentation Package

The three fully equipped monitoring stations and the two monitoring stations with reduced equipment will be equipped with the following:

- **5 Ammonia analyser**
with authomatic calibration pump,
chemical cleaning and sample heater
- **3 Nitrate analyser**
with automatic calibration pump, ion selective electrode,
chemical cleaning and sample heater
- **2 TOC analyser**
Auto-cleaning, Auto call and Stainless
steel continuos liquid sample filtration unit
- **1 COD analyser**
- **5 dissolved oxygen analyser**
Complete with immersion probe
- **5 turbidity measurements 0 - 100 NTNU.**
Complete with WP 320 self cleaning
turbidity sensor and mounting kit.
- **5 pH/temperature measurement**
2 channel pH transmitter complete with pH probe
Pt 100 temp element, Flow through housing and connecting kit
- **5 conductivity measurement**
Complete with conductivity sensor, flow through chamber
and cable with connector
- **Mounting**
pH/temp, conductivity dissolved oxygen and turbidity. These
instruments are mounted on a panel with all the necessary tubings, wiring and with automatic
cleaning devices if necessary. The panels will be specially made for this project.
- **Support**
The price includes 2 weeks technical assistance for the commissioning of the analysers on site
(China) by Zellweger Analytics Application chemist
- **Spare parts for 2 years**
See Spare part list in fax from NIVA/ABB: Water Quality Monitoring - Parts and
instrumentations list.

First bullet, Statement:

“present Agreement”

is changed to:

“present Contract”.

- Statement under 6.1, third bullet point:

“The request for the second and third year of the Project...”

is changed to:

“The amounts for the second and third year of the Project...”.

- Statement under Section 6.2:

“with standard Norwegian rates and” is deleted.

- Section 6.2, start of first bullet:

“The following hourly rates shall be used for the categories of Norwegian personnel:

For research scientists : NOK 630,-

For engineers and research assistants : NOK 490,-

For technical assistants : NOK 360,-

One week consists of 42 working hours.

- Contract. Section 7:

The following statements shall be added:

“Progress and status reports to be produced under each Task of the Project shall be specified, including which partner is responsible for producing them, in the annual Detailed Work Plans.”

“The language of the reports shall be English. If translation of reports is necessary, this shall be taken care of by the Chinese partners.”

- List of Annexes

The Project Proposal: “Surveillance of Water Quality in the Songhuajiang River System in Heilongjiang Province, P. R. of China”, dated January 1996.

Place and date

Place and date

For Heilongjiang Environmental
Protection Bureau (H/EPB)

For Norwegian Institute for Water
Research (NIVA)

Quote for the Songhua River System - Water monitoring equipment				
5 complete instrumentation packages	NOK	1,726,000		
5 dataloggers	NOK	120,000		
5 filters	NOK	89,000		
2 pumps 6 kg. 30 l/min	NOK	13,000		
8 pumps 1,5 kg 20 l/min	NOK	32,000		
1000 m electrical cable	NOK	27,000		
1000 m rubber tubing 25 mm/34mm	NOK	35,000		
12 water taps	NOK	7,000		
5 batteries with charger and converter	NOK	53,000		
5 compressors with tube	NOK	10,000		
fittings	NOK	5,000		
2 water level sensors 0 - 10 m	NOK	13,000		
Total	NOK	2,130,000	2,130,000	
*Trailer	NOK	250,000		
ISCO sampler	NOK	50,000		
Total	NOK	300,000	300,000	
Total for water quality monitoring equipment with trailer ex. tax				
	NOK	2,430,000		
Tax (suggested) 1,5 % results in	NOK	2,467,000		
	approx.	NOK	2,500,000	
Available funds for adjustment procedures				
Originally budget for water quality monitoring			NOK	3,900,000
Revised budget			NOK	2,500,000
Budget available for adjustments			NOK	1,400,000
Agreed tasks prioritised for funding within the budget				
*Motor vehicle for transport of trailer			NOK	500,000
Supplementary funds for air monitoring unit			NOK	200,000
Supplementary funds for 2 extra Chinese experts to go to Norway for training			NOK	70,000
Extra man hours on Norwegian side to cover this			NOK	30,000
*Long-range communication in Harbin			NOK	100,000
Norwegian travel expences, 1 person to 3 annual consultancy meetings in Beijing			NOK	90,000
**Purchase of hydrological data			NOK	140,000
Local expences in China for visitor arrangements			NOK	50,000
*Purchase of population data			NOK	20,000
**Investigate and provide/purchase information on local use of pesticides and fertiliser			NOK	25,000
**Investigate and provide information on agricultural land use			NOK	35,000
*Work out digital maps			NOK	40,000
Possible redcution in discount from instrument prducer/Other expences			NOK	100,000
Total			NOK	1,400,000
* = Items to be purchased under the responsibility of the Chinese side, including quote and other relevant issues.				
** = Items to be purchased to order procedures/determined jointly by NIVA and HEPB.				
The Chinese side expresses a wish that funds saved form the budget may be prioritised to cover supplementary expences in China for visiting Norwegian scientists.				

Detailed Workplan, water

Heilongjiang

Phase 1, 2 and 3

Page 1 of 54

	1997						1998						1999													
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F
Phase 1																										
1. Workshop Harbin																										
2 Revised Project Plan																										
3 Review of existing manual monitoring data and assessment of quality assurance routines																										
4. Review of existing water classification																										
5. Review of existing user interests																										
6. Review of discharges from point sources																										
7 Review and assessment of on-line monitoring stations																										
7.1 Site Inspection																										
7.2 Solution suggestions																										
7.3 Solution design																										
8 Network data handling																										
9 Phase 1 report (NIVA)																										
10 Annual report (HEPB)																										
Phase 2																										
1 Visit to Harbin																										
2 Agreement on Revised Project Plan																										
3. Data collection, 1 step (HEPB)																										
3.1 Map in the scale 1:500,000 (if permission)																										
3.2 Map in Scale 1:1,000,000																										
3.3 Main Pollution sources (database copy and location on a map)																										

NNNN

Detailed Workplan, water Heilongjiang Phase 1, 2 and 3

Page 2 of 4

Detailed Workplan, water Heilongjiang Phase 1, 2 and 3

Page 3 of 54

Detailed Workplan, water Heilongjiang Phase 1, 2 and 3

ANNEX 6

Data Requirements

Explanation to data requirements on:

1. Land coverage
2. User interests
3. Industrial point sources

The fulfilment of the commitments made by the Chinese side is subject to the availability of the data required.

1. Land coverage

H/EPB agreed to submit to NIVA a map with information about the land coverage in the Songhua River system catchment area by 1 May 1997. A detailed description and an explanation are given in annex 6.1.

2. User interests

2.1 Maps

H/EPB agreed to submit to NIVA a map with information about the user interests in the Songhua River System catchment area by 1 May 1997 (see also Annex 6.2). This information should comprise the following user interests:

- Drinking water including overview of points for withdrawal
- Irrigation;
- Water supply for quality demanding industry (e.g. foodprocessing, pharmaceutical)
- Recreation including swimming;
- Fishing, divided into “leisure fishing”, commercial fishing and fish-farming;
- Protected (landscape and animals)
- Groundwater sources
- Others, to be specified.

The information should be marked with a line on the map according to the colour code specified in annex 6.2. In cases where the extent of the user interest on the map corresponds to a length of less than 10 km, this should be marked with a dot according to the same color code, and the exact length should be specified on a separate sheet.

3. Industrial point sources

See Annex 6.3

Annex 6.1

Information needed to describe Land Coverage in the catchment of the Yia hua River System

Proposed deadline: 1 May 1997

Main Type	Sub Type	Description	Map Reference	Legend
Agricultural Area	<i>Farm land (crop production)</i>	Indicate areas with crop production on a map (preferably categorized on the "catchment area map", but if difficult on the "statistical unit map") Give a verbal description of what type of crop that are produced within the areas on a separate page and if possible the percentage of each crop. The size of the area should be given in km ² . The areas shall be marked with a map reference code, and this must be used as a reference in the verbal description.	The areas shall be marked with the letter AF and accompanied with a number 1,2,3,4 etc.	
	<i>Grazing land, (meadow)</i>	Indicate areas with grazing land (preferably categorized on the "catchment area map", but if difficult on the "statistical unit map") Give a verbal description/comments (if any) on a	The areas shall be marked with the letter AG and accompanied with	

	separate page. The size of the area should be given in km ² . The areas shall be marked with a map reference code, and this must be used as a reference in the verbal description.	a number 1,2,3,4 etc.
Forest	Indicate areas covered with forest on the map, (preferably categorized on the "catchment area map", but if difficult on the "statistical unit map"). Give a verbal description/comments (if any) on a separate page. The size of the area should be given in km ² . The areas shall be marked with a map reference code, and this must be used as a reference in the verbal description.	The areas shall be marked with the letter F and accompanied with a number 1,2,3,4 etc.
Non Cultivated Areas (e.g mountain areas, marshes,)	Indicate non productive areas on the map, (preferably categorized on the "catchment area map", but if difficult on the "statistical unit map"). Give a verbal description/comments (if any) on a separate page. The size of the area should be given in km ² . The areas shall be marked with a map reference code, and this must be used as a reference in the verbal description.	The areas shall be marked with the letter NP and accompanied with a number 1,2,3,4 etc
Main Cities	Indicate the areas of the main cities in the catchment on a map, (preferably categorized on the "catchment area map", but if difficult on the "statistical unit map"). Give a verbal description/comments (if any) on a separate page. The size of the area should be given in km ² . The areas shall be marked with a map reference code, and this must be used as a reference in the verbal description.	The areas shall be marked with the letter NP and accompanied with a number 1,2,3,4

Water Surface	<i>Rivers</i>	Indicate rivers in the Yia River System on a map which shows the catchment and subcatchments of Yia River Systems. Calculate the surface area of the river in the three season: 1) dry season, 2)normal season, and flood season. The size of the surface area of the river should be given in km ² . Give a verbal description/comments (if any) on a separate page, and use the map reference code in this description.	The codes shall correspond to the code given for the subcatchment.
	<i>Lakes</i>	Indicate lakes in the Yia River System on the same map which shows catchment and subcatchments. Calculate the surface area of the lakes. The size of the area should be given in km ² . Give a verbal description/comments (if any) on a separate page. The areas shall be marked with a map reference code, and this must be used as a reference in the verbal description.	The codes shall correspond to the code given for the subcatchment. Accompanied with numbers 1, 2, 3, 4....

Annex 6.2

Information required to describe User Interests in the catchment of Yia River System

Deadline: 1 May 1997

User Interest	Description	Map Reference	Legend
Drinking water, including overview of points for abstraction	<ul style="list-style-type: none"> On the user interest map, indicate the locations of drinking water supply water abstraction; On a separate page, specify the amount of water abstracted, using the same reference code as on the map. Specify if the water from the drinking water abstraction is used for other purposes as well such as industry, irrigation etc. 	The drinking water abstraction should be marked with the letter code DW, should be followed a number 1,2,3...etc.	
Water supply for quality demanding industry (e.g. food-processing, pharmaceutical)	<ul style="list-style-type: none"> On the user interest map, indicate the location of the water outlet to the industrial plants; On a separate page, specify the amount of water abstracted , using use the same reference code as on the map. 	The water supply for industrial plants should be marked with the letter code IW, followed by a number 1,2,3...etc.	

Irrigation	<ul style="list-style-type: none"> On the user interest map, indicate the location of the outlet for irrigation. On a separate page specify the amount of water abstracted, using the same reference code as on the map Specify the main type of crop the water is used for. <p>The water supply for irrigation should be marked with the letter code IW, followed by a number 1,2,3...etc.</p>	<p>The water supply for irrigation should be marked with the letter code IW followed by a number 1,2,3...etc.</p>
	<ul style="list-style-type: none"> Indicate the location of abstraction from groundwater wells. On a separate page, specify the amount of water abstracted, using the same reference code as on the map. Specify the use of the water. 	<p>The water supply from groundwater wells should be marked with the letter code GW, followed by a number 1,2,3...etc.</p>
Recreation, including swimming	<ul style="list-style-type: none"> Indicate the stretches of the river that are used for recreational purposes. Locations used for swimming should be marked with a dot. On a separate page, specify the type of recreation, using the same reference code as on the map 	<ul style="list-style-type: none"> Recreational sites should be marked with the letter code R, followed by a number 1,2,3..etc. The swimming sites should be marked with the letter code RS, followed by a number 1,2,3 ...

Fishing, divided into “leisure fishing”, commercial fishing and fish-farming;	<ul style="list-style-type: none"> Indicate the stretches of the river that are used for: <ol style="list-style-type: none"> leisure fishing; commercial fishing; fish-farming. On a separate page, quantify the catches by using the same reference code as on the map 	<ul style="list-style-type: none"> Leisure fishing should be marked with the letter code FR, followed by a number 1,2, 3..etc. Commercial fishing should be marked with the letter code FC, followed a number 1,2,3 ... The fish farming locations should be marked the letter code FF, followed by a number 1,2,3... 	
Protected Areas (landscape and animals)	<ul style="list-style-type: none"> Indicate the stretches of the river adjacent to protected areas. Indicate the location of the protected areas On a separate page, describe the type of protected area and other relevant information by using the same reference code in the description as on the map. 	<p>The stretches of the river should be marked with the letter code PA, followed by a number 1,2, 3..etc.</p>	
Others, to be specified	Please provide information about other relevant user interest information		

Data requirements for discharges from industrial point sources

Data group	Data	Description	Timeframe
Phase 1			15 March 1997 for the main industrial activities (about 70) 1 May 1997 for the remaining industrial activities (about 40)
General Information			
Name in Chinese		Please provide the name of the industrial plant in Chinese	
Name pin yin		Please provide the name of the industrial plant in pin yin	
Location		The location of the industrial plants should will be given on "the overview map".	
Type of Industry		Please indicate the type of industrial activity	
Recipient	Primary Recipient	Please provide the name of the primary recipient into which the outlet from the industrial activities is discharged	

Data group	Data	Description	Timeframe
Phase 2			1 July 1997
Sewer Network		Please indicate if the process water is discharged: • into sewer system for treatment • into sewerage without treatment and subsequently into a freshwater recipient • directly into a freshwater recipient.	
Discharges			
	Water flow	Please provide the figures for the quantities of water from each production step	
	Pollution parameter	Please provide the list of pollution parameters which are measured, if different from the parameters in the database, as well as information about the values measured	
Discharge permits		Please provide information about discharge permits and procedures for routine inspections	
			1 September 1997
Phase 3			
Waste water treatment plant for the industry	Treatment processes	Please describe the treatment processes for treating the waste water from industry If possible, draw a flow diagram.	
	Treatment efficiencies	Please provide the overall treatment efficiencies for the different substances measured	
	Hydraulic load	Please provide the quantity of water treated at the waste water treatment plant	
	Hydraulic capacity	Please provide the figure of waste water flow for which the waste water treatment plant is designed	
Production			
	Raw material	Please indicate the type and amount of raw material used in the production process	
	End products	Please describe the type and amount of products produced	
	Bi products	Please describe the type and amount of biproducts from the production process	

	Production lines	Please describe the production processes and the production lines (technology used) If possible, draw a flow diagram
Pollution parameters	Waterflow	Please provide the figures of the amount of water from each production line
Phase 4	To be specified at a later stage	1998

Phase 4

NORGIT-Sentral AS
Bryggeriveien 2
Postboks 229
1601 FREDRIKSTAD
Att: Torstein Skancke

Oslo, 21.02.97

CONTRACT FOR DELIVERY OF NORAD/CHINA PROJECT

The undersigned parties agree to the following conditions for the delivery of the defined computer systems to the NORAD/CHINA project.

The deliverables committed under this contract are specified entirely in the attached tenders number 2896-S10-K10 and 2897-S10-K10 (Server components) and 2898-S10-K10 and 2899-S10-K10 (PC/Workstation components). Additional components do not fall under the price- and delivery conditions specified in this contract, but must be specified in a separate contractual document.

DanoTech Oslo AS (the supplier) will deliver to buyers representative (NORGIT) the aforementioned deliverables at the specified address in Fredrikstad, Norway, under the INCOTERMS 1990 freight condition of DDP (Delivered Duty Paid). Delivery will be completed in accordance with requirements set forth by NORGIT in order to meet the delivery deadline of April 1, 1997 in China.

Warranties and support options are the sole responsibility of Hewlett-Packard Corporation, in accordance with the terms and conditions set forth in the attached tenders. This tender assumes that the end-user contacts Hewlett-Packard locally to sign the appropriate on-site support agreement. The attached tender includes no local support and warranty other than the product's standard warranty.

China Hewlett-Packard Co Ltd.
5-6 Floor - West Wing Office
World Trade Center 1Jian Guo Men Wai Av.
Beijing
P.R. China

Terms of payment shall be 20 days from invoice date, which is set to April 1, 1997. Default in payment shall result in interest being invoiced in accordance with "morarenteloven".

In the event of contractual disagreements as to the scope and fulfillment of this delivery, norwegian law shall have precedence. Any and all disagreements shall be resolved within the norwegian legal system and in accordance to norwegian law.

Date:

on behalf of the supplier,
DanoTech Oslo as

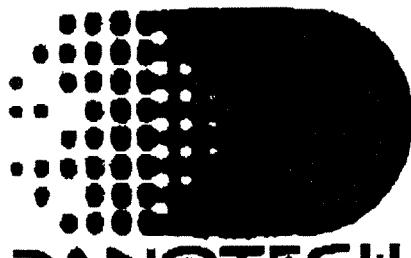
Date:

on behalf of the buyer,

Peter Horup
Sales Director

TELEFAX

DanoTech Oslo as
Hoffsveien 17
0275 Oslo
Telefon: 22 50 22 50
Telefax: 22 50 22 11



Til : NORGIT-Senteret AS
Att. : Terstein Skancke
Faxnr. : 69 39 49 10
Fra : Peter Horup
Dato : 21.02.97
Subject : Ref. telefonsamtale og faks 21.02.1997
Antall sider : 1 inkl. denne

Ref. telefonsamtale og faks 21.02.1997

Viser til tidligere faks i dag og samtale kl 10:16.

De to stednavn er oplyst til at være YanTai og Heilongjiang. Håber jeg har stavet dem rigtigt.

Har sat op 3 stk. 21" skærme på YanTai PC-ordren som oprindeligt. Dette betyder at kun en af de 8 PC'er leveres uden skærme.

Grundet garantien i Kina skaber udfordringer mellem Hewlett-Packard Norge AS og den lokale Hewlett-Packard organisation i Kina forealdr vi at dere bruger følgende model

Hewlett-Packard i Kina ønsker at garanti og support tegnes direkte mellem Hewlett-Packard i Kina og NORGIT's slutkunde i Kina. Dette grundet politik, traditioner osv. og fordi de mener at det bliver for kompliceret at både dere, DanoTech Oslo as og Hewlett-Packard Norge AS skal være en aktiv partner i denne aftale. For at sige det i klar tekst slik vi i vores samtale med Hewlett-Packard i Kina direkte beskæd om at drag dit p.... gror da dette var en kinesisk sag.

Int. vores samtale i dag har jeg derfor fjernet de support og garanti optioner som var tilbuddt dere. Dette betyder at NORGIT's slutkunde må tegne en direkte aftale med Hewlett-Packard i Kina. Dette må dere sikker i kontrakten med slutkunden at i forudsætter at denne gennemfarer en lokal aftale så de ikke kan komme tilbage til dere med diverse klager

Alle tidligere tilbud baseret på tilbud/ordre nr. 2605 og 2606 er annulleret. Nye ordrebekræftelse er vedlagt denne faks med følgende ordre nr. 2896 / 2897 / 2898 / 2899

Jeg trænger en nu bestilling fra dere som er rette mod de 4 ovenstående nr. Kan du sende mig den i løbet af dagen.

Venlig hilsen
DanoTech Oslo AS


Peter Horpp
Sagløslef



Kundenavn: **NORGIT-Senteret**
Bryggeriveien 2
Postboks 229
1602 FREDRIKSTAD
 Att: **Torstein Skancke**
 Fax: **69 39 49 10**

Lev. adresse: **NORGIT-Senteret**
Bryggeriveien 2
1602 FREDRIKSTAD
 Att: **Torstein Skancke**
 Merkes: **YanTai - Kina**

Fak. adresse: **NORGIT-Senteret**

DanoTech Oslo as
Hoffsveien 17
0275 OSLO
 Telefon hovedkontor: **22 50 22 50**
 Telefax hovedkontor: **22 50 22 11**
 Kundenummer: **10160**
 Ordrebekr. nr: **2899**
 Ordrebekr. dato: **21.02.97**
 Forventet lev. dato: **01.04.97**
 DanoTech's ref.: **Peter Horup**
 Deres ref.: **Torstein Skancke**
 Deres rek.: **YanTai - Kina**
 Side: **1**

Produktbeskrivelse	Ant.	Pris pr. enhet	Rabatt %	Beløp	Vår forventet lev. dato
SUPERUSER WORKSTATIONS FOR CHINA					
HP Vectra XA Pentium Pro 200 Model 2500/32MB	3	20 250,00		60 750,00	01.04.97
<ul style="list-style-type: none"> * Pentium 200 MHz processor (can be upgraded to dual 200) * 64 bits PCI local bus architecture * 2,5 GB IDE Fast hard disk (9 ms - 5200 rpm) * 256 KB Synchronous Cache write-back * 2 MB Video-RAM (max upgrade 8 MB Video-RAM) * 64 bits PCI Matrox Millennium Plus graphics card * IDE CD-ROM Drift and Audio 16-bit * Pre-installed Windows NT 3,51 Workstation, English ver. * 3 year warranty - First year on-site * Tower Model enclosure 					
HP 32 ME EDO SIMM Accessory kit (2X16MB)	3	2 100,00		6 300,00	01.04.97
All workstations are delivered with 64 MB RAM					
Matrox Millenium 6MB VARAM upgrade	3	2 159,00		6 477,00	01.04.97
All workstations are delivered with 8 MB VideoRAM					
STANDARD WORKSTATIONS FOR CHINA					
HP Vectra VL3 Pentium 133 Model 1280/16MB	1	8 990,00		8 990,00	01.04.97

Leveringsbedingelser:
 Leveringsmetode:
 Betalingsbedingelser:
 Snilsbetingelser:

Alle fraktkostnader belastes kunden
 Budbil - Normal levering
 Netto gr. 10 dager
 Skal være vedlagt denne ordrebekr. Hvis ikke må dette
 opplyses senge umiddelbart etter mottak av ordrebekr.



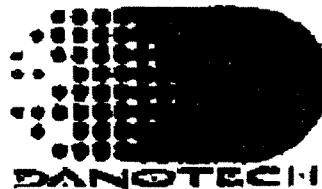
Microsoft

**HEWLETT
PACKARD**

TOSHIBA

Ordrebekreftelse

2899-S10-K10



Kundenavn: **NORGIT-Senteret**
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Att: **Torstein Skancke**
Merkes: **YanTai - Kina**

Fak. adresse: **NORGIT-Senteret**

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Telefax hovedkontor: **22 50 22 11**
Kundenummer: **10160**
Ordrebekr. nr: **2899**
Ordrebekr. dato: **21.02.97**
Forventet lev. dato: **01.04.97**
DanoTech's ref.: **Peter Horup**
Deres ref.: **Torstein Skancke**
Deres rek.: **YanTai - Kina**
Side: **2**

Produktskrivelse	Amt.	Pris pr. enhed	Rabatt %	Beløp	Vår forventet lev. dato
▪ Pentium 133 MHz processor					
▪ 64 bits PCI local bus architecture					
▪ 1,1 GB IDE harddisk					
▪ 512 KB Synchronous Cache write-back					
▪ 1 MB Video-RAM (max upgrade 2 MB Video-RAM)					
▪ Ultra VGA graphics card					
▪ IDE CD-ROM, 8-spin and Audio 16-bit					
▪ Pre-installed Windows 95 / 3,11					
▪ 3 year warranty - First year on site					
▪ Desktop enclosure					
MS Windows NT workstation version 4.0 - English, CD	1	2 490,00		2 490,00	01.04.97
HP 1 MB VRAM upgrade for HP Vectra VL series	1	474,00		474,00	01.04.97
All workstations are med 2 MB Videoram					
HP VECTRA 16MB EDO SIMM Accessory (2x8MB)	1	1 250,00		1 250,00	01.04.97
All workstations are delivered with 32 MB RAM					
XXXXXX XXXXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX					
Microsoft Mouse Carrera PS/2 miniDIN Ergo 2 button	4	510,00		2 040,00	01.04.97
HP 21" Ultra VGA monitor Ergo 1600*1280 Dpi (MPR11)	3	13 595,00		40 785,00	01.04.97
HP 17" Ultra VGA monitor 1280*1024 Dpi	1	4 990,00		4 990,00	01.04.97

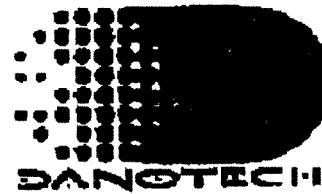
Leveringsbetingelser:
Leveringsmåde:
Betalingsbetingelser:
Salgsbetingelser:

Alle fraktbestander belastes kunden
Budsjell - Normal levering
Netto pr. 10 dager
Skal være vedlagt denne ordrebekr. Hvis ikke må denne
opplysning følger umiddelbart etter mottak av ordrebekr.



Ordrebekreftelse

2899-S10-K10



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 Att: Torstein Skancke
 Merkes: YanTai - Kina

Fak. adresse: NORGIT-Senteret

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Tel/fax hovedkontor: 22 50 22 11
Kundenummer: 10160
Ordrebekr. nr: 2899
Ordrebekr. dato: 21.02.97
Forventet lev. dato: 01.04.97
DanoTech's ref.: Peter Horup
Deres ref.: Torstein Skancke
Deres ref.: YanTai - Kina
Side: 3

Produktbeskrivelse	Ant.	Pris pr. enhet	Rabatt %	Beløp	Vår forventet lev. dato
HP original warranty					
MS Workstation 4.0 Upp. fra 3.1 CD-ROM versjon	4	912,00		3 648,00	01.04.97
Drop cable 10 meters TP / 10base-T	4	385,00		1 540,00	01.04.97
All cables supplied are factory inspected to 100Mbit standard. All cables manufactured in Germany.					
Consultancy - Monitor calibration and setting Estimated time calibration time pr. monitor is 15 min.	4	162,50		650,00	01.04.97
Prerequisite is that all calibration and setup is carried out at DanoTech's offices in Oslo, Norway.					
HP DeskDirect 10/100TX PCI Fast 100 Mbit LAN Adapter	4	1 045,00		4 180,00	01.04.97
23 % mva av 144 564,00				33 249,72	
Ordresum				177 813,50	

Leveringsbetingelser:
 Leveringstidspunkt:
 Alle fraktkostnader belastes kunden
 Normal levering
 Netts pr. 10 dager
 Betalingsbetingelser:
 Salgsbetingelser:
 Skal være vedlagt denne ordrebekr. Hvis ikke må dette opplyses senge umiddelbart etter mottak av ordrebeletter.

Med vennlig hilsen
 DanoTech Oslo as

Peter Horup
 Daglig leder
 Mailadresse: peter.horup@danotech.no





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Fak. adresse: **NORGIT-Senteret**

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Telifax hovedkontor: 22 50 22 11
Kundenummer: 10160
Ordrebekr. nr: 2898
Ordrebekr. dato: 21.02.97
Forventet lev. dato: 15.02.97
DanoTech's ref.: Peter Horup
Deres ref.: Torstein Skancke
Deres rek.: Heilongjiang - Kina
Side: 1

Produktbestyrkelse	Ant.	Pris pr. enhet	Rabatt %	Beløp	Vår forventet lev. dato
SUPERUSER WORKSTATIONS FOR CHINA					
HP Vectra XA Pentium Pro 200 Model 2560/32MB	3	20 250,00		60 750,00	15.02.97
<ul style="list-style-type: none"> * Pentium 200 MHz processor (can be upgraded to dual 200) * 64 bit PCI local bus architecture * 2.5 GB IDE Fast hard disk (9 ms - 5200 rpm) * 256 KB Synchronous Cache write-back * 2 MB Video-RAM (max upgrade 8 MB Video-RAM) * 64 bits PCI Matrox Millennium Plus graphics card * IDE CD-ROM 8-spis og Audio 16-bit * Pre-installed Windows NT 3.51 Workstation, English ver. * 3 year warranty - First year on-site * Tower Model enclosure 					
HP 32 MB EDO SIMM Accessory kit (2X16MB)	3	2 650,00		7 950,00	15.02.97
All workstations are delivered with 64 MB RAM					
Matrox Millennium 6MB VRAM upgrade	3	2 159,00		6 477,00	15.02.97
All workstations are delivered with 8 MB VideoRAM					
XXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXX					
STANDARD WORKSTATIONS FOR CHINA					
HP Vectra VI A Pentium 133 Model 1280/16MB	1	8 990,00		8 990,00	15.02.97

Leveringsbetingelser:

Alle fraktomkostnader belastes kunden

Leveringsmetode:

Budbil - Normal levering

Betalingsbetingelser:

Netto pr. 30 dager

Salgsbetingelser:
Større vært vedlagt denne ordreboken. Hvis ikke må dette opplyses selv om umiddelbart etter mottak av ordrebekr.**Microsoft****HEWLETT
PACKARD****TOSHIBA**

Ordrebekreftelse**2898-S10-K10**

Kundenavn: NORGIT-Senteret
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 Att: Torstein Skancke
 Merkes: Heilongjiang - Kina

Fak. adresse: NORGIT-Senteret

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 Telefax hovedkontor: 22 50 22 11
 Kundenummer: 10160
 Ordrebekr. nr: 2898
 Ordrebekr. dato: 21.02.97
 Forventet lever. dato: 15.02.97
 DanoTech's ref.: Peter Horup
 Deres ref.: Torstein Skancke
 Deres rek.: Heilongjiang - Kina
 Side: 2

Produktbeskrivelse	Ant.	Pris pr. enhet	Rabatt %	Beløp	Vår forventet lev. dato
▪ Pentium 133 MHz prosessor					
▪ 64 bit PCI local bus architecture					
▪ 1,2 GB IDE harddisk					
▪ 512 KB Synchronous Cache write-back					
▪ 1 MB Video-RAM (max upgrade 2 MB Video-RAM)					
▪ Ultra VGA graphics card					
▪ IDE CD-ROM 8-spin and Audio 16-bit					
▪ Pre-installed Windows 95 / 3.11					
▪ 3 year warranty - First year on site					
▪ Desktop enclosure					
MS Windows NT workstation version 4.0 - English, CD	1	2 490,00		2 490,00	15.02.97
HP 1 MB VRAM upgrade for HP Vectra VL1 series	1	474,00		474,00	15.02.97
All workstations are med 2 MB Videoram					
HP VECTRA 16MB EDO SIMM Accessory (2x8MB)	1	1 250,00		1 250,00	15.02.97
All workstations are delivered with 32 MB RAM					
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXX					
Microsoft Mouse Carrera PS/2 miniDIN Ergo 2 button	4	510,00		2 040,00	15.02.97
HP 21" Ultra VGA monitor Ergo 1600*1280 Dpi (MPRII)	2	13 595,00		27 190,00	15.02.97
HP 17" Ultra VGA monitor 1280*1024 Dpi	1	4 990,00		4 990,00	15.02.97

Leveringsbetingelser:
 Leveringsmetode:
 Betalningsbetingelser:
 Salesbetingelser:

Alle fraktkostnader belastes kunden
 Budbøl - Normal levering
 Netto pr. 30 dager
 Skal være vedlagt denne ordrebekr. Hvis ikke må dette
 opplyses senest umiddelbart etter mottak av ordrebekr.





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Att: **Torstein Skancke**
Merkes: **Heilongjiang - Kina**

Fak. adresse: **NORGIT-Senteret**

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Telefax hovedkontor: **22 50 22 11**
Kundenummer: **10160**
Ordrebekr. nr.: **2898**
Ordrebekr. dato: **21.02.97**
Forventat lev. dato: **15.02.97**
DanoTech's ref.: **Peter Horup**
Deres ref.: **Torstein Skancke**
Deres rek.: **Heilongjiang - Kina**
Side: **3**

Produktbeschreibung	Ant.	Pris pr. enhed	Rabatt %	Beløp	Vår forventet lev. dato
HP original warranty					
MS Workstation 4.0 Upp. fra 3.5 CD-ROM version	4	912,00		3 648,00	15.02.97
Drop cable 10 meters TP / 10base-T	4	385,00		1 540,00	15.02.97
All cables supplied are factory inspected to 100Mbit standard. All cables manufactured in Germany.					
Consultancy - Monitor calibration and setting Estimated time calibration time pr. monitor is 15 min. Prerequisite is that all calibration and setup is carried out at DanoTech's offices in Oslo, Norway.	4	162,50		650,00	15.02.97
HP DeskDirect 10/100TX PCI Fast 100 Mbit LAN Adapter	4	1 045,00		4 180,00	15.02.97
Incoming freight charges for Monitors	1	500,00		500,00	15.02.97
Incoming freight charges for various add-on	1	250,00		250,00	15.02.97
Incoming freight	1	650,00		650,00	15.02.97
Freight insurance for DDP delivery	1	792,00		792,00	15.02.97
Complete delivery DDP to NORGIT in Fredrikstad	1	1 960,00		1 960,00	15.02.97
Delivery via express carrier					
23 % mva av 136 767,00				31 455,41	

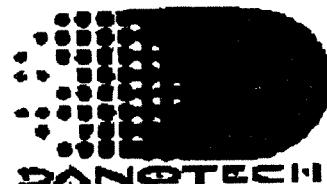
Leveringsbetingelser:
Leveringsmetode:
Betalningsbetingelser:
Salgsbetingelser:

Alle fraktkostnader belastes kunden
Budbil - Normal levering
Netto pr. 30 dager
Skal være vedlagt denne ordrebekr. Hvis ikke må dette
opplyses så blir umiddelbart etter mottak av ordrebekr.



Ordrebekreftelse

2898-S10-K10



Kundenavn: NORGIT-Senteret
Bryggeriveien 2
Postboks 229
1602 FREDRIKSTAD
Att: Torstein Skancke
Fax: 69 39 49 10

Lev. adresse: NORGIT-Senteret
Bryggeriveien 2
1602 FREDRIKSTAD
Att: Torstein Skancke
Merkes: Heilongjiang - Kina

Fak. adresse: NORGIT-Senteret

Danotech Oslo as
Hoffsveien 17
0275 OSLO
Telefon hovedkontor: 22 50 22 50
Telefax hovedkontor: 22 50 22 11
Kundenummer: 10160
Ordrebekr. nr: 2898
Ordrebekr. dato: 21.02.97
Forventet lev. dato: 15.02.97
Danotech's ref.: Peter Horup
Deres ref.: Torstein Skancke
Deres rek.: Heilongjiang - Kina
Side: 4

Produktdeskripcjon	Ant.	Pris pr. enhet	Rabatt %	Beløp	Vår forventet lev. dato
Ordresum				168 223.50	

Leveringsbedingelser:
Alle fraktomstader belastes kunden
Leveringsmetode:
Budbil - Normal levering
Betalingsbedingelser:
Netto pr. 30 dager
Salgsbedingelser:
Støl være vedlagt denne ordrebekr. Hvis ikke må dette
applyses selger umiddelbart etter mottak av ordrebekr.

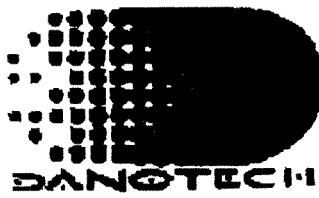
Med vennlig hilsen
Danotech Oslo as

Peter Horup
Daglig leder
Mailadresse: peter.horup@danotech.no



Ordrebekreftelse

2897-S10-K10



Kundenavn: NORGIT-Senteret
 Bryggeriveien 2
 Postboks 229
 1602 FREDRIKSTAD
 Att: Torstein Skancke
 Fax: 69 39 49 10

Lev. adresse: NORGIT-Senteret
 Bryggeriveien 2
 1602 FREDRIKSTAD
 Att: Torstein Skancke
 Merkes: YanTai - Kina

Fak. adresse: NORGIT-Senteret

DanoTech Oslo as
 Hoffsvieien 17
 0275 OSLO
 Telefon hovedkontor: 22 50 22 50
 Telefax hovedkontor: 22 50 22 11
 Kundenummer: 10160
 Ordrebekr. nr: 2897
 Ordrebekr. dato: 21.02.97
 Forventet lev. dato: 01.04.97
 DanoTech's ref.: Peter Harup
 Deres ref.: Torstein Skancke
 Deres rek.: YanTai - Kina
 Side: 1

Produktbeskrivelse	Ant.	Pris pr. enhet	Rabatt %	Edsp	Vår forventet lev. dato
HP NetServer Pentium 240 LH Pro Dual - Model 1/64MB <small>Includes two (2) 200 MHz pentium processors</small>	1	58 000,00		58 000,00	01.04.97
• Intel DUAL 200 MHz Pentium processor					
• 64 bit PCI local bus architecture					
• New disk					
• Dual Fast PCI SCSI-II controller (+ external port) and IDE					
• 512 KB Cache write-back					
• CD-RQM drive 8-spin SCSI					
• Super VGA graphics controller					
• 4 PCI slot / 1 combo PCI/EISA / 4 EISA slot					
• 2 half-height mass storage shelves					
• 3 year on-site warranty					
HP 4.2GB Hot Swap Ultra SCSI Harddisk Drive <small>Includes 12 GB SCSI Fast & Wide disk storage capacity</small>	3	9 600,00		28 800,00	01.04.97
HP 64 MB 60ns DDMM Accessory for HP NetServer LH Plus <small>Includes a total of 128 MB ECC RAM</small>	2	6 600,00		11 200,00	01.04.97
HP DiskDirect 10/100TX PCI Fast 100 Mbit LAN Adapter	2	1 045,00		2 090,00	01.04.97
HP 17" Ultra VGA monitor 1280*1024 Dpi	1	4 990,00		4 990,00	01.04.97
Drop cable 10 meter TP / 10base-T	1	385,00		385,00	01.04.97

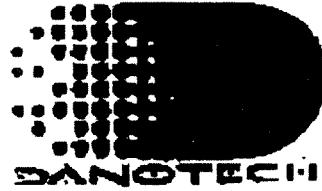
Leveringsbetingelser:
 Leveringstid:
 Betalingsbetingelser:
 Salgsbetingelser:

Alla fraktkostnader belasnes kunden
 Budsjt - Normal levering
 Netto pr. 30 dager
 Stål vara vedlagt denne ordrebekr. Hvis ikke mi dette
 opplyses seiges umiddelbart etter mottak av ordrebekr.



Ordrebekreftelse

2897-S10-K10



Kundenavn: NORGIT-Senteret
 Bryggeriveien 2
 Postboks 229
 1602 FREDRIKSTAD
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 Fax: 69 39 49 10

Lev. adresse: NORGIT-Senteret
 Bryggeriveien 2
 1602 FREDRIKSTAD
 Att: Torstein Skancke
 Merkes: YanTai - Kina

Fak. adresse: NORGIT-Senteret

DanoTech Oslo as
 Hoffsveien 17
 0275 OSLO
 Telefon hovedkontor: 22 50 22 50
 Telefax hovedkontor: 22 50 22 11
 Kundenummer: 10160
 Ordrebekr. nr: 2897
 Ordrebekr. dato: 21.02.97
 Forventet lev. dato: 01.04.97
 DanoTech's ref.: Peter Horup
 Deres ref.: Torstein Skancke
 Deres rek.: YanTai - Kina
 Side: 2

Produktbeskrivelse	Ant.	Pris pr. enhet	Rabatt %	Beløp	Vår forventet lev. dato
Consultancy - Installation & Implementation Installation of HOT-swap disks Prerequisite for quote is that all installation and testing is performed at DanoTech's office in Oslo, Norway	2	650,00		1 300,00	01.04.97
Consultancy - Installation & Implementation Installation and testing of RAM is estimated at 20 min. Prerequisite for quote is that all installation and testing is performed at DanoTech's office in Oslo, Norway	1	216,00		216,00	01.04.97
Consultancy - Installation & Implementation Installation and testing of 10/100 Mbit network adapter Prerequisite for quote is that all installation and testing is performed at DanoTech's office in Oslo, Norway	1	162,50		162,50	01.04.97
MS Windows NT Server 4.0 (Eng.) - 10 clients MS Windows NT Server Resource Kit	1	7 990,00		7 990,00	01.04.97
HP SureStore Tape 6000i 8 GB internal DAT This unit has a maximum capacity of 16Gb compressed Mounting kit for 5.25" Tape/DAT/CD-ROM for HP NetServer HP 4 mm data tape, DDS-DAT-cassette, 120 m, 4,0 GB Includes a total of 15 4mm DAT tapes	1	1 295,00		1 295,00	01.04.97
Cheyenne ARCserver 6.00 Enterprise for Win NT Server	1	6 495,00		6 495,00	01.04.97
	1	647,00		647,00	01.04.97
	3	685,00		2 055,00	01.04.97
	1	5 750,00		5 750,00	01.04.97

Leveringsbedingelser:
 Leveringsmetode:
 Bestillingsbedingelser:
 Salgsbedingelser:

Alle fraktbestemmede belastes kundens
 Budbil - Normal levering
 Netto pr. 20 dager
 Skal være valgt denne ordrebekr. Hvis ikke må dette
 opplyses selger umiddelbart etter mottak av ordrebekr.



Ordrebekreftelse

2897-S10-K10



Kundenavn: **NORGIT-Senteret**
Bryggeriveien 2
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1602 FREDRIKSTAD
Att: Torstein Skancke
Fax: 69 39 49 10

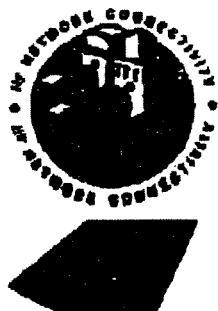
Lev. adresse: **NORGIT-Senteret**
Bryggeriveien 2
1602 FREDRIKSTAD
Att: Torstein Skancke
Merkes: YanTai - Kina

Fak. adresse: **NORGIT-Senteret**

DanoTech Oslo as
Hoffsveien 17
0275 OSLO
Teléfono hovedkontor: 22 50 22 50
Tel/fax hovedkontor: 22 50 22 11
Kundenummer: 10160
Ordrebekr. nr: 2897
Ordrebekr. dato: 21.02.97
Førventet lev. dato: 01.04.97
DanoTech's ref.: Peter Horup
Deres ref.: Torstein Skancke
Deres rek.: YanTai - Kina
Side: 3

Produktskrivelse	Ant.	Pris pr. enhet	Rabatt %	Beløp	Vår førventet lev. dato
Consultancy - Installation & Implementation <i>Installation & testing of DAT estimated at 1 hour</i>	1	650,00		650,00	01.04.97
<i>Prerequisite for quote is that all installation and testing is performed at DanoTech's office in Oslo, Norway</i>					
Consultancy - Installation & Implementation <i>Installation & testing of ARChive estimated at 2 hours</i>	2	650,00		1 300,00	01.04.97
<i>Prerequisite for quote is that all installation and testing is performed at DanoTech's office in Oslo, Norway</i>					
HP PowerWise UPS 3100 VA Battery Pack	1	3 090,00		3 090,00	01.04.97
HP PowerWise 3100 VA UPS	1	7 250,00		7 250,00	01.04.97
Consultancy - Installation & Implementation <i>Total systems and network integration and server burn-in test. Basic tuning will be performed.</i>	1	2 500,00		2 500,00	01.04.97
Cisco C100 - 8 Ports 100 Mbit fast hub	1	7 485,00		7 485,00	01.04.97
Freight insurance for DDP delivery from DanoTech Oslo as to NORGIT in Fredrikstad is billed at 1,5% of contract value	1	4 875,00		4 875,00	01.04.97
Incoming freight charge for Server	1	650,00		650,00	01.04.97
Complete delivery of all goods - DDP Fredrikstad via express carrier to NORGIT	1	1 000,00		1 000,00	01.04.97

Leveringsbedingelser:
 Leveringstidspunkt:
 Alle fraktkostnader belastes kunden
 Budbil - Normal levering
 Betalingsbedingelser:
 Netto pr. 30 dager
 Skal være vedlagt denne ordrebekr. Hvis ikke må dette opplyses senge umiddelbart etter mottak av ordrebekr.



Microsoft

HEWLETT
PACKARD

TOSHIBA

Ordrebekreftelse

2897-S10-K10



Kundenavn: **NORGIT-Senteret**
Bryggeriveien 2
Postboks 229
1602 FREDRIKSTAD
 Att: **Torstein Skancke**
 Fax: **69 39 49 10**

Lev. adresse: **NORGIT-Senteret**
Bryggeriveien 2
1602 FREDRIKSTAD
 Att: **Torstein Skancke**
 Merkes: **YanTai - Kina**

Fak. adresse: **NORGIT-Senteret**

DanoTech Oslo as
Hoffsveien 17
0275 OSLO
 Telefon hovedkontor: **22 50 22 50**
 Telefax hovedkontor: **22 50 22 11**
 Kundenummer: **10160**
 Ordrebekr. nr.: **2897**
 Ordrebekr. dato: **21.02.97**
 Forventet lev. dato: **01.04.97**
 DanoTech's ref.: **Peter Horup**
 Deres ref.: **Torstein Skancke**
 Deres rek.: **YanTai - Kina**
 Side: **4**

Produktdeskriksjon	Art.	Pris pr. enhet	Rabatt %	Beløp	Vår forventet lev. dato
Installation and configuration of system and network on-site will be charged at DanoTech's standard rates for hourly consultancy. All travel costs w in accordance with norwegian gov't. regulations.					
If partial delivery is required additional freight costs will be invoiced.	48				
23 % mva av 160 175,50				36 840,36	
Ordresum				197 016,00	

Leveringsbedingelser: Alle fraktkostnader belastes kunden
 Leveringsmetode: Budbil - Normal levering
 Betalingsbedingelser: Netto pr. 30 dager
 Salgsbedingelser: Skal være vedlagt denne ordrebekr. hvis ikke vil dette
 opplyses senge umiddelbart etter mottak av ordrebekr.

Med vennlig hilsen
 DanoTech Oslo as

Peter Horup
 Daglig leder

Malladresse: peter.horup@danotech.no



Ordrebekreftelse**2896-S10-K10**

Kundenavn: **NORGIT-Senteret**
Bryggeriveien 2
Postboks 229
1602 FREDRIKSTAD
Att: Torstein Skancke
Fax: 69 39 49 10

Lev. adresse: **NORGIT-Senteret**
Bryggeriveien 2
1602 FREDRIKSTAD
Att: Torstein Skancke
Merkes: Heilongjiang - Kina

Fak. adresse: **NORGIT-Senteret**

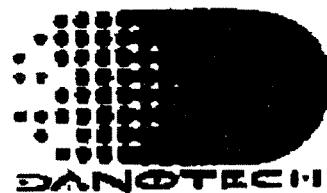
DanoTech Oslo as
Hoffsveien 17
0275 OSLO
Teléfono hovedkontor: 22 50 22 50
Telefax hovedkontor: 22 50 22 11
Kundenummer: 10160
Ordrebekr. nr: 2896
Ordrebekr. dato: 21.02.97
Forventet lev. dato: 21.02.97
DanoTech's ref.: Peter Horup
Deres ref.: Torstein Skancke
Deres ref.: Heilongjiang - Kina
Side: 1

Produktbeskrivelse	Ant.	Pris pr. enhed	Rabatt %	Beløp	Vår forventet lev. dato
HP NetServer Pentium 200 LH Pro Deal - Model D/64MB <small>Includes two (2) 200 Mhz pentium processors</small>	1	58 000,00		58 000,00	15.02.97
• Intel DUAL 200 MHz Pentium processor • 64 bit PCI local bus architecture • Non disk • Dual Fast PCI SCSI-II controller (+ external port) and IDE • 512 KB Cache write-back • CD-ROM drive B-spin SCSI • Super VGA graphics controller • 4 PCI slot / 1 combi PCI/EISA / 4 EISA slot • 8 half-height mass storage shelves • 3 year on-site warranty					
HP 1.2GB Hot Swap Ultra SCSI Harddisk Drive <small>Includes 12 GB SCSI Fast & Wide disk storage capacity</small>	3	9 600,00		28 800,00	15.02.97
HP 64 MB 60ns DIMM Accessory for HP NetServer LH Plus <small>Includes a total of 128 MB ECC RAM</small>	2	5 600,00		11 200,00	15.02.97
HP DeskDirect 10/100TX PCI Fast 100 Mbit LAN Adapter	2	1 045,00		2 090,00	15.02.97
HP 17" Ultra VGA monitor 1280*1024 Dpi	1	4 990,00		4 990,00	15.02.97
Drop cable 10 meter TP / 10base-T	1	385,00		385,00	15.02.97

Leveringsbetingelser:
 Leveringstid:
 Betalingsbetingelser:
 Salgsbetingelser:

Alle fraktkostnader belastas kunden
 Budde - Normal levering
 Netto pr. 30 dager
 Stat vært vedlagt denne ordrebekr. Hvis ikke må denne
 applyses selges umiddelbart etter mottak av ordrebekr.





Kundenavn: **NORGIT-Senteret**
 Bryggeriveien 2
 Postboks 239
 1602 FREDRIKSTAD
 Att: **Torstein Skancke**
 Fax: **69 39 49 10**

Lev. adresse: **NORGIT-Senteret**
 Bryggeriveien 2
 1602 FREDRIKSTAD
 Att: **Torstein Skancke**
 Markes: **Heilongjiang - Kina**

Fak. adresse: **NORGIT-Senteret**

DanoTech Oslo as
 Hoffsvien 17
 0275 OSLO
 Telefon hovedkontor: **22 50 22 50**
 Telefax hovedkontor: **22 50 22 11**
 Kundenummer: **10160**
 Ordrebekr. nr: **2896**
 Ordrebekr. dato: **21.02.97**
 Forventet lev. dato: **21.02.97**
 DanoTech's ref.: **Peter Horup**
 Deres ref.: **Torstein Skancke**
 Deres rek.: **Heilongjiang - Kina**
 Side: **2**

Produktbeskrivelse	Ant.	Pris pr. enhet	Rabatt %	Beløp	Vår forventet lev. dato
Consultancy - Installation & Implementation Installation of HOT-swap disks Prerequisite for quote is that all installation and testing is performed at DanoTech's office in Oslo, Norway	2	650,00		1 300,00	15.02.97
Consultancy - Installation & Implementation Installation and testing of RAM is estimated at 20 min. Prerequisite for quote is that all installation and testing is performed at DanoTech's office in Oslo, Norway	1	216,00		216,00	15.02.97
Consultancy - Installation & Implementation Installation and testing of 10/100 Mbit network adapter Prerequisite for quote is that all installation and testing is performed at DanoTech's office in Oslo, Norway	1	162,50		162,50	15.02.97
MS Windows NT Server 4.0 (Eng.) - 10 clients	1	7 990,00		7 990,00	15.02.97
MS Windows NT Server Resource Kit	1	1 295,00		1 295,00	15.02.97
HP SureStore Tape 6000i 8 GB internal DAT This unit has a maximum capacity of 16Gb compressed	1	6 495,00		6 495,00	15.02.97
Mounting kit for 5.25" Tape/DAT/CD-ROM for HP NetServer	1	647,00		647,00	15.02.97
HP 4 mm data tape, DDS-DAT-cassette, 120 m, 4.0 GB Includes a total of 15 4mm DAT tapes	3	685,00		2 055,00	15.02.97
Chevonne ABCserver 6.00 Enterprise for Win NT Server	1	5 750,00		5 750,00	15.02.97

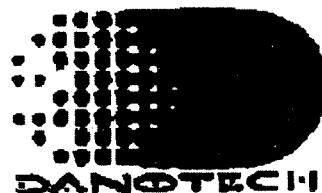
Leveringsbestemmelser:
 Leveringsmetode:
 Betalingsbestemmelser:
 Salgsbestemmelser:

Alle fraktkostnader belastes kunden
 Budbil - Normal levering
 Netto pr. 30 dager
 Skal være vedlagt denne ordrebekr. Hvis ikke må dette
 opplyses senge umiddelbart etter mottak av ordrebekr.



Ordrebekreftelse

2896-S10-K10



Kundenavn: **NORGIT-Senteret**
 Bryggeriveien 2
 Postboks 229
 1602 FREDRIKSTAD
 Att: Torstein Skancke
 Fax: 69 39 49 10

Lev. adresse: **NORGIT-Senteret**
 Bryggeriveien 2
 1602 FREDRIKSTAD
 Att: Torstein Skancke
 Merkes: Heilongjiang - Kina

Fak. adresse: **NORGIT-Senteret**

DanoTech Oslo as
 Hoffsveien 17
 0275 OSLO
 Telefon hovedkontor: 22 50 22 50
 Telefax hovedkontor: 22 50 22 11
 Kundenummer: 10160
 Ordrebekr. nr: 2896
 Ordrebekr. dato: 21.02.97
 Forventet lev. dato: 21.02.97
 DanoTech's ref.: Peter Harup
 Deres ref.: Torstein Skancke
 Deres rek.: Heilongjiang - Kina
 Side: 3

Produktbeskrivelse	Ant.	Pris pr. enhet	Rabatt %	Beløp	Vår serventer lev. dato
Consultancy - Installasjon & Implementasjon Installation & testing of DAT estimated at 1 hour Prerequisite for quote is that all installation and testing is performed at DanoTech's office in Oslo, Norway	1	650,00		650,00	15.02.97
Consultancy - Installasjon & Implementasjon Installation & testing of ARCServe estimated at 3 hours Prerequisite for quote is that all installation and testing is performed at DanoTech's office in Oslo, Norway	2	650,00		1 300,00	15.02.97
HP PowerWise UPS 2100 VA Battery Pack	1	3 090,00		3 090,00	15.02.97
HP PowerWise 2100 VA UPS	1	7 250,00		7 250,00	15.02.97
Consultancy - Installasjon & Implementasjon Total systems and network integration and server burn-in test. Basic tuning will be performed.	1	2 500,00		2 500,00	15.02.97
Cisco 2501 Router AUI/Seriz 10 Mbit	2	7 450,00		14 900,00	15.02.97
Cisco AUI til TP transiver 10 Mbit	2	325,00		650,00	15.02.97
Cisco IP software til Cisco 2501	2	8 981,50		17 963,00	15.02.97
Cable for Cisco 2501	2	936,00		1 872,00	15.02.97
NOTE: Cisco products are not under warranty or support by Hewlett-Packard. All contact is directly with Cisco. 100 Mbit FAST on LAN and 10 Mbit router should join via a switch. The requested solution of using two network cards in the server is untried and unsupported.					

Leveringsbedingelser:
 Leveringsmetode:
 Betalingsbedingelser:
 Salgsbestillinger:

Alle fraktkostnader belastes kunden
 Budbil - Normal levering
 Netto pr. 30 dager
 Skal være vedlagt denne ordrebekr. Hvis ikke må dette
 opplyses neiger umiddelbart etter mottak av ordrebekr.



Ordrebekreftelse

2896-S10-K10



Kundenavn: **NORGIT-Senteret**
Bryggeriveien 2
Postboks 229
1602 FREDRIKSTAD
Att: Torstein Skancke
Fax: 69 39 49 10

Lev. adresse: **NORGIT-Senteret**
Bryggeriveien 2
1602 FREDRIKSTAD
Att: Torstein Skancke
Merkes: Heilongjiang - Kina

Fak. adresse: **NORGIT-Senteret**

DanoTech Oslo as
Hoffsveien 17
0275 OSLO
Telefon hovedkontor: 22 50 22 50
Telefax hovedkontor: 22 50 22 11

Kundenummer: 10160
Ordrebekr. nr: 2896
Ordrebekr. dato: 21.02.97
Forventet lev. dato: 21.02.97
DanoTech's ref.: Peter Horup
Deres ref.: Torstein Skancke
Deres rek.: Heilongjiang - Kina
Side: 5

Produktbeskrivelse	Ant.	Pris pr. enhet	Rabatt %	Beløp	Vår forventet lev. dato
Cisco C108 - 8 Ports 100 Mbit fast hub	1	7 485,00		7 485,00	15.02.97
Incoming freight charge for Server	1	650,00		650,00	15.02.97
Complete delivery of all goods - DDP Fredrikstad via express carrier to NORGIT.	1	1 000,00		1 000,00	15.02.97
Installation and configuration of system and network on-site will be charged at DanoTech's standard rates for hourly consultancy. All travel costs w in accordance with norwegian govt. regulations.					
If partial delivery is required additional freight costs will be invoiced.				43 257,71	
23 % mva av 190 685,70				234 543,50	
Ordresum					

Leveringsbetingelser:
Leveringsstedet:
Betalingsbetingelser:
Salgsbetingelser:

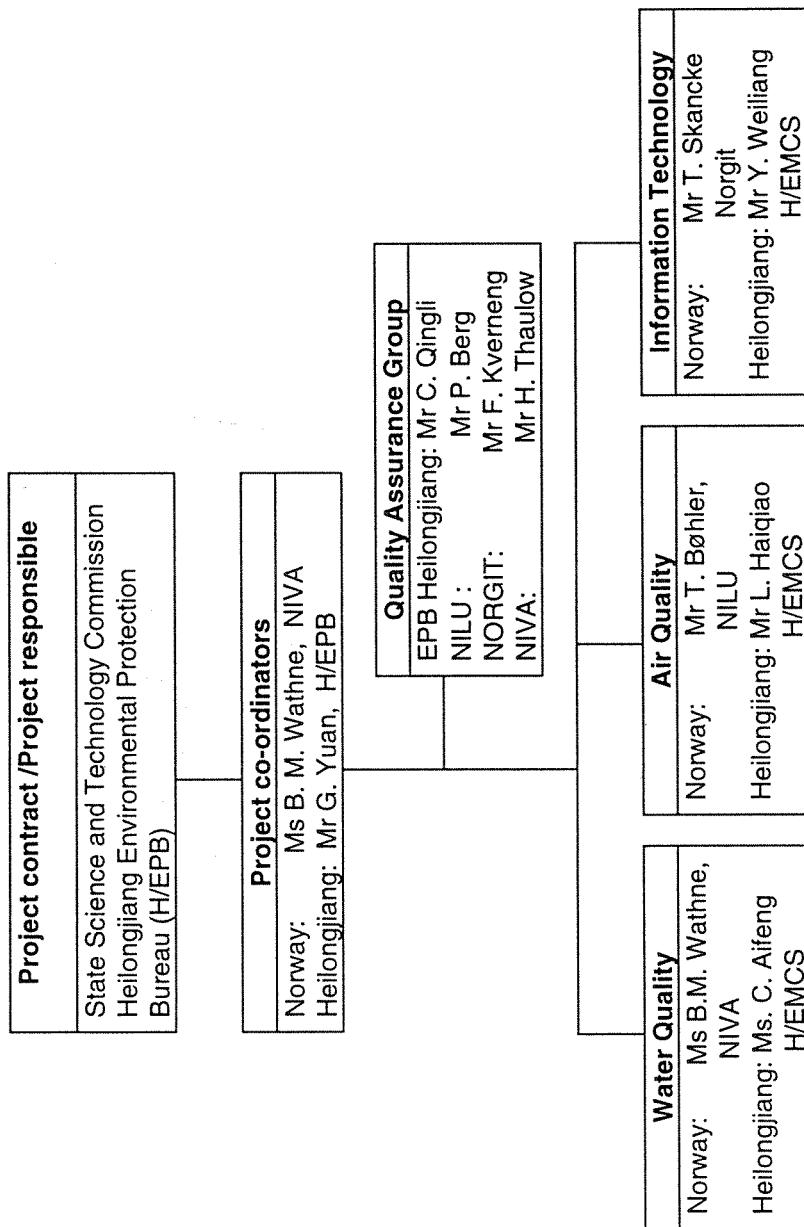
Alla fraktkostnader belasjes kunden
Budbil - Normal levering
Netto pr. 30 dager
Skal være vedlagt denne ordrebekr. Hvis ikke må dette
opplyses sengest umiddelbart etter mottak av ordrebekr.

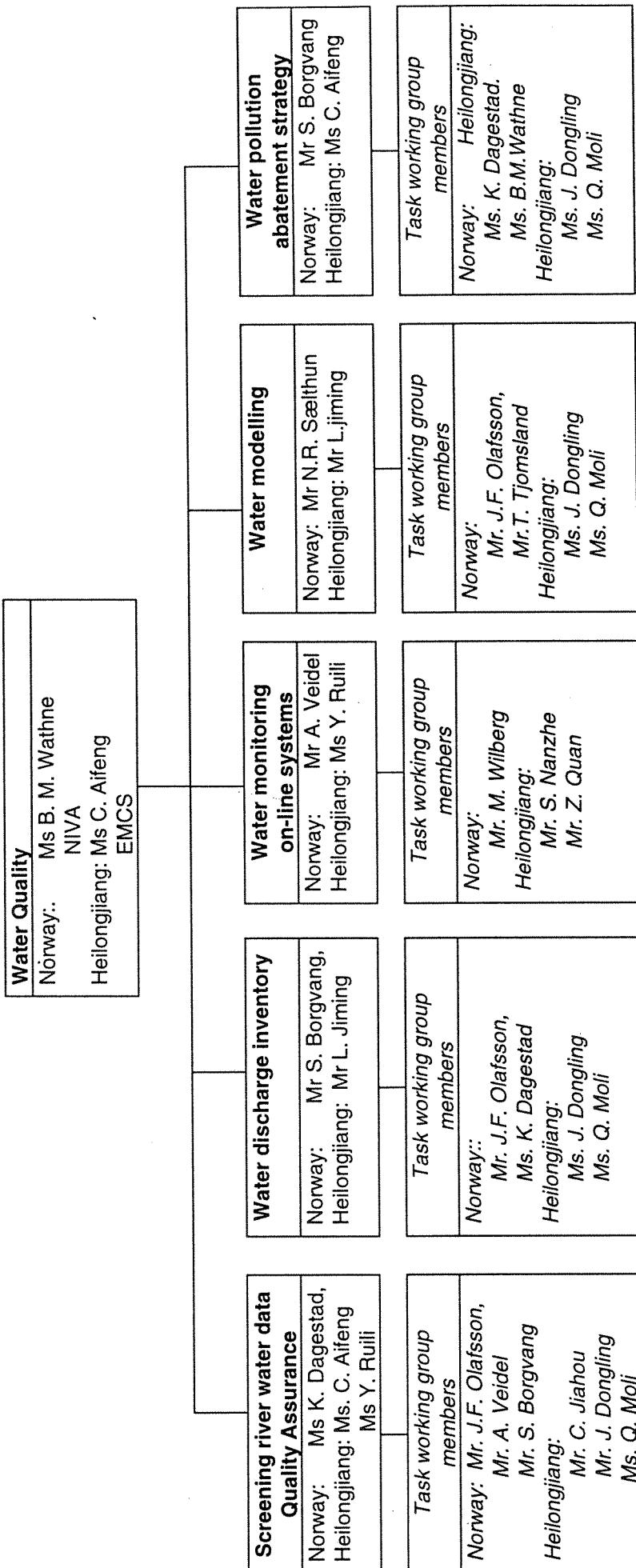
Med vennlig hilsen
DanoTech Oslo as

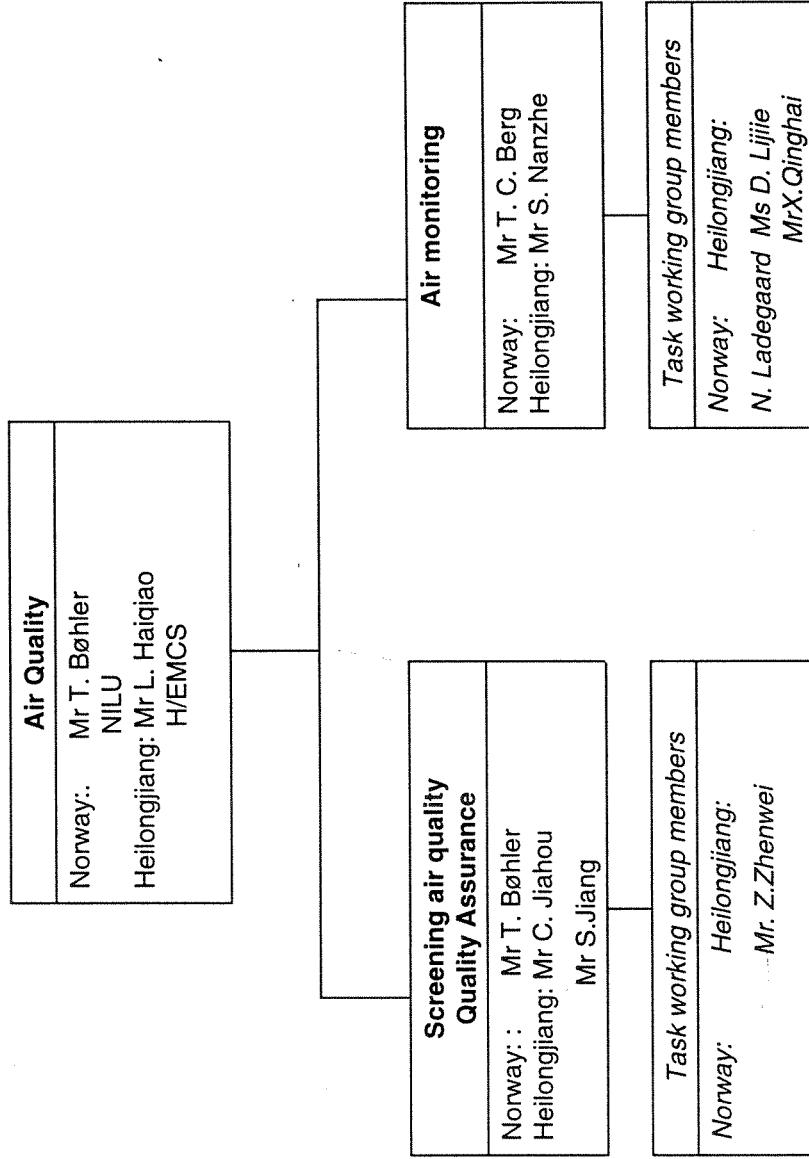
Peter Horup
Daglig leder
Mailadresse: peter.horup@danotech.no



**The Project Organisation for
The Surveillance of Water Quality in the Songhua River in Heilongjiang Province, China**







Information Technology	
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