STUDY TOUR REPORT NO. 4

C.P.U.NO. 821

COMMITTEE ON PUBLIC UNDERTAKINGS (2000-2001)

(THIRTEENTH LOK SABHA)

STUDY TOUR REPORT

ON

GARDEN REACH SHIPBUILDERS & ENGINEERS LIMITED

Laid in the Lok Sabha on

Laid in the Rajya Sabha on

LOK SABHA SECRETARIAT

NEW DELHI

December 12, 2000/ Agrahayana 1921(S)

CPU NO. 821 STR NO. 4

CONTENTS

			Page
Composition of the	e Committee (2000-2001)		(111)
Introduction			(v)
Słudy Tour Notes Limked.	on Garden Reach Shipbuilders & Engineers		1
Observations of th	e Committee	;	19
	<u>ANNEXURES</u>		
ANNEXURE	Tour Programme of the Committee on Public Undertakings to Guwahati, Shillong, Calcutte and Darjeeling from 5 th June, 2000 to 12 th June, 2000,		26
ANNEXURE II	Composition of the Committee on Public Undertakings which visited Guwahali, Shillong, Calcutta and Darjeeling from 5 th to 12 th June, 2000.	·	27
ANNEXURE III	List of Officials of the Garden Reach Shipbuilders & Engineers Limited who were present during discussion with the Committee on Public Undertakings at Calcutta on 8.6.2000		2 9

COMPOSITION OF COMMITTEE ON PUBLIC UNDERTAKINGS

(2000 - 2001)

CHAIRMAN

Prof. Vijay Kumar Malhotra

MEMBERS LOK SABHA

- 2 Shri Prasaana Acharya.
- Shri Sudip Bandyepathyay.
- 4. Shri Stainder Singh Baryala
- Shri R & Bhetle
- 6. Shri Shiv Raj Singh Chauhan
- 7. Shrimati Sangeeta Kumari Singh Dec
- Shri C K Jaffer Shariof
- Shri Ram Tehal Chaudhary
- 10. Shri K E Krishnamurjhy .
- Shri Vilas Mutternwer
- 12. Shri Charam Raj Şingh Petel
- Shri R P Rudy
- 14. Shri Tarit Barup Topdar
- Shri Devendra Prasad Yadavi

MEMBERS RAJYA SABHA

- Shri Jibon Roy
- 17. Smt Ambika Soni.
- 10. Shri Suresh Kalmadi.
- Shri Ranjen Prased Yadavi
- 20. Shri & Kalaverkata Reo.
- 21. Shri B # Singbal
- 22. Shi i Satishchanora Siteram Pradhan

SECRETARIAT

3.	Shri Rajagopalan Nair,	Joint Secretary
2	Shri S Bai Shekar,	Director
З.	Shri Rai Kumar.	Under Sarretery

Elected w.e.f. 29th November, 2000 <u>vice</u> Maj.Gen. (Reld.) B.C. Khanduri ceased to be member of the Committee consequent upon his appointment as a Minister w.e.f. 7th November, 2000.

INTRODUCTION

In pursuance of the procedure adopted under Rule 281 of the Rules

of Procedure and Conduct of Business for laying the Study Tour Reports on

the Tables of both the House of Parliament, Chairman, Committee on

Public Undertakings having been authorised by the Committee to lay the

Study Tour Report on their behalf, lay the Study Tour Report of the

Committee on their discussions with the officials of Garden Reach

Shipbuilders and Engineers Limited

2. The Committee held discussions with the officials at Calcutta on

8.6.2000. A copy of the tour programme is annexed. (Annexure-t).

The Committee considered and approved the Report at their sitting.

held on 17th November, 2000.

The Committee wish to express their thanks to Garden Reach.

Shipbuilders and Engineers Limited for providing facilities during the visit of

the Committee and for supplying necessary material and information

required in connection with the Study Tour,

They would also like to place on record their sense of appreciation.

for the invaluable assistance rendered to them by the officials of the Lok

Sabha Secretariat attached to the Committee.

PROF. VIJAY KUMAR MALHOTRA CHAIRMAN

COMMITTEE ON PUBLIC UNDERTAKINGS

NEW DELHI

December 13, 2000

Agrahayana 21, 1922(S)

 (\mathbf{V})

"STUDY TOUR NOTES" OF THE COMMITTEE ON PUBLIC UNDERTAKINGS

Discussion with the representatives of Garden Reach Shipbuilders and Engineers Limited at Calcutta on 8th June, 2000.

At the outset, the Chairman, Committee on Public Undertakings made opening remarks and requested the Chairman, Garden Reach Shipbuilders & Engineers Ltd to introduce himself and his colleagues to the Committee. The Chairman, COPU also requested him to give a brief on the working of Garden Reach Shipbuilders & Engineers Ltd.

After the introduction of officers, the Chairman, Garden Reach Shipbuilders & Engineers Ltd. informed the Committee that Garden Reach Shipbuilders and Engineers Ltd. is a wholly Government owned multi-dimensional enterprise, under the administrative control of Ministry of Defence. The Company has a diverse product range and possesses a vast reservoir of honed skills in the art of shipbuilding, production of diesel engines and high engineering products developed over a number of years. The Company has three major Divisions, namely; i) Ship Division; ii) Engineering Division; and iii) Engine Division. The Company has six units viz. (i) Main Works; (ii) Fitting out Jetting; (iii) Bailey Bridge Unit; (iv) Belur Unit; (v) Deck Machinery Unit; and (vi) Baranagar Unit in and around Calcutta and the Diesel Engine Plant at Ranchi (Bihar).

made to go in for fresh collaboration agreements with some internationally known ongine manufacturers.

- 6. The Chairman, Garden Reach Shipbuilders & Engineers Ltd. has also informed the Committee that the Company has a full fledged design department with modern facilities like CAD/CAM System. GRSE ensures that products are manufactured based on proven designs for assured quality and reliability. The Company has already achieved ISO 9000 accreditation for (a) Diesel Engine Plant, Ranchi, (b) Deck Machinery Unit at Taratala Unit, (c) Bailey Bridge at 61 Park Unit, (d) HRD Unit at Baranagar. Efforts are being made for implementation of ISO 9000 quality systems in Ship Division also.
- 7. With regard to manpower, Chairman, Garden Reach Shipbuilders & Engineers Ltd. has informed the Committee that staff strength of the Company was 7751 (Officer 832 and others 6919) as on 31st March, 2000. The Company is suffering from low productivity due to the ageing of workforce. The Company is taking remedial measures for inducting the required number of essential tradesmen such as Welders, Electricians, Fitters etc. so as to ensure that the production does not suffer in any manner. Training programmes are being organised on work culture, safety, Computer Awareness, Technical Skills specially, in aluminium welding, with a view to bring about improvement in skills, efficiency and work culture of the employees.

On the question of import substitution and export promotion, the Chairman, Garden Reach Shipbuilders & Engineers Ltd.has informed the Committee that Helicopter Traversing System, Helicopter Hanger, Marine Sawage Treatment Plant, KMT-0 Plough, Army Resovery equipment etc. I pave been developed by the

- 3. The Chairman, Garden Reach Shipbuilders & Engineers Ltd. also informed that at the Linia of take over by the Government in 1960, the value of production (VOP) was only Rs.2.24 Crore with a net profit of Rs. & Lacs only. The Company continued to make marginal profit until early 70s. However, due to various reasons the profitability of the Company took an adverse turn and it started making losses. By 1987-89 the cumulative lose stood at approx, Rs. 100 crore. From 1988-89 the Company started making profits, when it made drastic curtaliment in the expenditure. The Company showed an overall surplus in accounts in 1994-95 and was able to twice out the entire accumulated loss. The Company has been able to maintain increasing trend in VOP and achieved Rs. 425.64 crore in 1999-2000 (provisional) as against Rs.203 crore in 1994-95. The profit after tax has shown an increase from Rs. 15.82 crore in 1994-95 to Rs. 19.81 Crore in 1999-2000.
- 4. The Committee have been informed that the major customer of the Company is the Indian Navy. The other customers are Coast Guard, Border Security, State Governments, DGBR, Shipyards, Port Trusts, State Electricity Boards, Imagation Departments, Agro Industries, etc.
- 5. About the problems/bettlenecks in the Company, the Committee have been informed that lack of new ship orders is the major problem in the Shipbuilding Division. As a result, the Hull fabrication facility in the Main Unit is lying practically little and would continue to be so until the order for new LST(L) ships is received from the Indian Navy. The Committee have also been informed that lack of orders for Diesel Engines, Dack Machinery items and Material Handling Projects are also cause for concern. In order to boost the sales of DEP, Report, efforts are being

made to go in for fresh collaboration agreements with some internationally known oughto manufacturous.

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(Rs. In Crore)

Your	Value of Production	Salo of Producto	Not Profit		
1544.58					·
1996-97	304.96	159.39	15.98 -		
1997-98	361.89	145.45	15.38		
1990-9 9	425,95	363.52	42.57	• •	
1999-2000	425.64	868.01	19.81		-

When asked why there is inconsistency in the relationship among value of production, sale of products and profit, the Committee have been informed that GRSE is engaged in building of ships which undergo a long production cycle. As per the approved accounting principle applicable for construction industry, the annual revenue accounting and the profits are calculated on the basis of the Value of Production achieved during the financial year. GRSE has been following this principle. The financial results of the company are thus assessed on the basis of the Value of Production during any financial year. Since the Sales can take place on delivery of the ship of the customer, which take normally 5 to 7 years for completion, the accumulated cost of production during the construction period is shown under Work in Progress(WIP). Once the ship is delivered to the customer, the amount recorded under WIP is transferred to the sales. Accordingly, the sales figures as reflected in the annual accounts will represent high volume in the year the ships are delivered.

11. When asked the reasons for low profit during 1999-2000 in comparison to 1998-99, the Committee have been informed that the sales figure is high in the year 1999-2000 basically because of delivery of 2 major warships viz INS-ADITYA and INS BRAHMAPUTRA. The profit of the Company depends on Value of Production and not on sales volume. The profit in the year 1998-99 was high due

to adjustment of excess production of the Liquidated Damages to the tune of Rs. 31 crore.

- 12. When asked to state as to how the Company has been able to wipe off accumulated loss of Rs. 100 crores and also state whether there was any waiver of loan or grants given by the Government, the Committee have been informed that there was no waiver of loans or grants. However, the share capital was restructured in 1987-88 and accordingly part of the government loans were converted into "Equity" and the balance loan were consolidated into a single loan with repayment in 10 equal instalments commencing from 1991-92. During this period the company was also favoured with new ship orders from the Indian Navy which resulted in gradual improvement and the company started making profit from the year 1988-89.
- 13. On the question of on-going projects (ships) which are under execution, the Chairman, Garden Reach Shipbuilders & Engineers Ltd. informed the Committee that the following major projects are under construction:

<u>Particulars</u>	<u>No.</u>	Target Committed
Corvette	2	(Ist -April, 2001, 2 nd -March/2002)
Fast Attack Craft	4	(Ist-March/2000,2 nd -Aug./2000 3 rd -Nov./2000 & 4 th - March/2000. Delivery of first-two not yet firmed up owing to Gear Box problem).
Frigate	2	(Ist-Feb./2000 & 2 nd -April/2000).
Hover Crafts	6	Sept.2000-Feb.2002.

14. When asked to state whether there are any time/cost over-run involved in the completion of such projects and the reasons for delay in delivery of ships, the

Committee have been informed that the costs are closely monitored by Warship Production Superintendent of Navy for labour and material booking. Hence, costs are stacily controlled and monitored by the customers. Time overrun takes place due to reasons beyond GRSE's control i.e. material availability from customer nominated indigenous sources, sub-contractors delay etc. and partly also due to the work culture prevailing in the shippard, PERT charts are made for the shipbuilding activity for each ship, and are closely monitored by the GWPA in quarterly meetings where the delays ere explained and monitored by CWPA. A monthly progress report is also torwarded to the Manistry.

The main reasons for delay in delivery of ships are given below:

- (i) Inadequate infrastructure in eighties to build suphisticated warships.

 Upgrouption was started only in the ninetics and is being progressed vigorously.
- (ii) Delay in fanalisation of equipment and approval of design.
- (iii) Modification of design and changes in equipment causes rework during the production phases.
- (iv) Delay in receipt of equipment from indigenous suppliers.
- (v) Delay in receipt of Russian weapon packages due to the political turnoll in early nineties.
- (vi) High degree of Indigenisation being attempted causes delays in development of the Items.
- (viii) Non-availability of experienced sub-confractors in and around Calcuttal causes delays in sub-contractor work.
- (viiii) Low productivity due to poor work cyllyre,

15. When asked about the volume of production and Sales during the last 3 years and also about modification/upgradation of Bailey Bridge Unit, the Committee have been informed by the Company as under:

Production figure for Bailey Bridge:

	1999-2000 (Prov.)	1998-99	1997-98
V.O.P.(Rs.Crs.)	16.00	17.31	13.81
Sales (Rs.Crs.)	16.63	17.73	14.27
Physical Prodn.(Tonnes)	2455	2416	29951

Modification/Upgradation of Bailey Bridge:

- Platforms of the Bailey Bridges have been strengthened by using stiffeners and checkered plates.
- li) Galvanising of Bailey Bridge components has been done to protect against natural corrosion. The option, however, is to be exercised by the customer.
- iii) Development of Double Lane Bridges of higher capacity is in hand. Doublelane Bridge of 30 ft. in length has been developed and manufactured. It is presently under assembly and testing.
- (iv) Design and Development of multi-lane Bridges of higher span is being progressed.
- 16. When asked to state why the Company are unable to export Bailey Bridge Unit's products as it has ISO 9000 accreditation, the Committee have been informed that though ISO 9000 accreditation of product-'Bailey Bridges' has had some impact in the export market, the price quoted is the prime factor, GRSE's offers are priced out due to highly subsidised offer quoted by the foreign bidders. Action is being taken to re-organise the existing set-up.
- 17. When asked about the diversification programme, the Committee have been informed that GSRE has already diversified into Engineering and Engine

- manufacturing. Both these activities, however, contribute only about 20% of the solal production annually. The factilles available and created over the years with the concurrence of the Minstry of Defence and the Navy are meant for the main business of the company which is shipbuilding. Hence, the Company has to concentrate on receiving ship orders from the Incian Navy and the Coast Guard.
 - 18. On the question of Government's policy/directive with regard to building of ships, the Committee have been informed that the Company is continuously upgrading the technology of building ships with the tatest warfare equipments required by the Indian Nevy. The requirement of warships is worked out on the basis of threat perception and the Government policy.
 - 19. Asked whether the Company have any collaboration with any foreign companies, the Chairman, Garden Reach Shipbuilders & Engineers Ltd. informed the Committee that the Company has collaborations with foreign companies for engineering products like Hover Crafts, Helicopter Traversing System, MTU Diesel Engine etc.
- 20. On being asked what assistance is required for modernisation and survival of the Company. The Committee have been informed that modernisation of infrastructure and facilities is the basis for survival of any commercial organisation. The funds for modernisation como from the profits earned. If the facilities are title these funds cannot be generated. The Company is presently facing kills dupacity in Hull building shops at the Main Unit in Calculia. As per the Porspective Plan, the Company is supposed to get orders to build 3LST(L)3 & 4

ASW Corvettes for the Indian Navy. GRSE must get these orders without any further delay so that the modernisation work can be progressed on time and in the right perspective. Only further orders can make GRSE survive. When asked whether liberalisation has affected the performance of DEP, Ranchi, the Committee have been informed that liberalisation has definitely had adverse impact on the engine orders. DEP, Ranchi is now negotiating for a new version of Diesel Engine MTU 4000 with MTU Germany which is expected to have a better share in the market. With the introduction of this new version of engine, facilities will have to be modernised and upgraded to suit the required technology.

- 21. About conducting of in-house R&D activities, the Committee have been informed that the Company do not have any separate R&D Department but R&D activities are continuously carried out by the Ship Division in developing new and efficient hull forms and by the Engineering Division in developing new pumps, reengineering and indigenisation. These are done simultaneously along with the production activity.
- 22. When asked about views on Government's policy regarding disinvestment in Public Undertakings, the Chairman, GRSE stated that the policy has been devised by the Government who are the owners of the undertakings. The Management view is that care should be taken to rehabilitate the workers. The Government should also ensure that employment of labour in general is not depleted.
- 23. On the question of quality control, the Committee have been informed that if GRSE makes sustained efforts to meet the quality requirements of different

projects of Ship Division and General Engineering through the Quality Systems to achieve high level of Customers' setisfaction. The Company is adequately organised to control oil quality parameters right from the raw-material to the end product by means of well equipped inspection & test facilities during the manufacturing stages. The Company possesses NABL Accredited Meltallurgical Testing Ladoratories and also has well set up Calibration facilities for instruments and garagets. Product Quality verification by internal Q.A. Deptt. jointly with Customers' authorised Inspection Agencies' classified Surveyors are carried out all critical manufacturing stages as well as for the final product.

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OBSERVATIONS OF THE COMMITTEE ON GARDEN REACH SHIPBUILDERS AND ENGINEERS LIMITED

LACK OF ORDERS FOR SHIPS FROM THE INDIAN NAVY

The Committee note that the Hull Fabrication Facility in the Main Unit of the Shipbuilding Division of GRSE as lying practically little to the extent of 87 percent at present due to lack of orders for building new ships and the position will continue to remain so until orders for new LST(L) ships are placed by Indian Navy on GRSE for debrication. The Committee therefore recommend that the Ministry of Defence should immediately decide the question of acquisition of ships for the Indian Navy and place orders on GRSE within a month's time from the date of receipt of this Report. The committee also recommend that the Ministry of Defence should re-orient its policy of acquisition of ships in favour of the Indian ship-building enterprises and should acquire ships any from within the country subject to their quality conforming to standards prescribed as has been done by countries like USA and Japan.

[Action :M/o Defence]

MULTIPLICITY OF SHIP-BUILDING ENTERPRISES IN INDIA

The Committee find that there are a number of ship building enterprises in the public sector under editorent animatrial which compute with any whicher and there is a lot of available duplication in their undertakings. The Committee, therefore, strongly feel that there is an immediate need for forging out a Ship - Building Policy so that all those enterprises are marged logether to echieve better economy in production and to have quicker technology upgradation by pooling in

all the available telent. The Committee desire that this matter should be placed before the Cabinet for an appropriate decision within three months of receipt of this Report by

the government,

[Action : M/o Defence] :

PROBLEM OF LOW PRODUCTIVITY IN GRSE

The Committee find that GRSE is afficied by the problem of low productivity

due to poor out-furn of work by the labour force, as the committee is given to \sim

understand that while countries like Korea take only about 5 years to build a ship, in

India, GRSE takes about 8 years to do the seme job. The Committee find that this

problem of low productivity should be addressed to lay the management of GRSE on an

emergent basis by suitably inclivating the work- force to give out their best every day,

and by prescribing rooms of out-put by suitably enforcing it with a schemo of incentives

and disincentives.

|Action: GRSE|

QUALITY OF IN-PUTS OBTAINED FROM PRIVATE AUXILARY UNITS

The Committee observe that although GRSE tries to meet quality requirements.

of different products to satisfy the customers, the Committee feet that the Company

should review its policy regarding lacceptance of various components and in-puts

supplied by various private auxiliary units to sea that no sub-standard items are

supplied to GRSE and strictor penalty dauses should be imposed upon them epart from

autright rejection of their material, as every such supply delays the production schedule.

Action: GRSE

AUTONOMY TO THE BOARD OF DIRECTORS OF GRSE

The Committee feet that there is need for conferring enough autonomy on the

Board of Directors of the Company, keeping in view the need for quick decision-making

in their business matters and also the huge cost involved in the manufacture of their

products. The Committee are of the view that the powers of the Board are grossly

inadequate to function in a competitive scenerio with adequate economic prudence and

therefore recommend that sufficient powers that are available under the Navratna

Dispensation should be conferred on this public enterprise in order to realize its

enormous potential to be a global player. The Committee wish to be informed of the

decision taken in this matter within three months of receipts of this Report.

[Action : M/o Defence]

DIESEL ENGINE PLANT, RANCHI

The Committee note that there is a possibility of Closure of Diesel Engine Plant

at Ranchi in view of obsolescence of technology and the product apart from factors :

such as liberalisations and competition. The Committee therefore, recommend that an

advance remedial action plan should be drawn up in respect of this unit on an emergent

basis, so that the plant is upgraded in time and the available man-power is sufficiently.

put to use. The Committee recommend that the current negotiations with MTU,

Germany should be expeditiously finalised for the collaborative arrangement for

production of the new version of Diesel Engine-MTU 4000.

[Action ; GRSE]

<u>ANNEXURGA</u>

COMMETTEE ON PUBLIC UNDERTAININGS

Tour programme of Committee on Public Undertakings to Guwalisti,
Shillong, Calcutte and Darjeeling from
5" Jane, 2000 to 12" Jane, 1600

(Members amembled at Gunabati)

Date & Day	Teor	Visit & Discussion			
5.6.2000 (Monday)	1730 hrs.	Discussion with the officers of Indian Gü Corporation			
•	1900 brs.	Discussion with the officers of Industrial Development Bank of Indus			
	(Night ball a	(Night ball at Gowahalb)			
, 6.6.2000 (Twas∆ay)	8900 lus.	Discussion with the officers of Power Grid Cooponesion			
	1430 lus.	Depusare for Shiffong by coul			
-	1800 Ers.	Aprilval Shillong			
	(Night balt)	u Shillong)			
7.6.2000 (Wednesday)	OSCO hea.	Discussion with the officers of NEEPCO			
	(Night \$49 or 5Millions)				
8.5.200b	07)0 lus.	Depositure for Guwahata by road			
(Miursdny)	1000 les.	Apriy d Guwakaji			
		Departure for Calcutta by IC-230			
	1400 lask	Amin al Calmata.			
	1600 hrs.	Discussion with the officers of Gorden Reach Shipbuilders and Engineers Ltd.			
	(Night halt at Calcut:2)				

'ANNEXURE II

COMPOSITION OF THE COMMITTEE ON PUBLIC UNDERTAKINGS WHICH VISITED GUWAHATI, SHILLONG, CALCUTTA AND DARJEELING FROM 5TH JUNE, 2000 to 12TH JUNE, 2000

B,NO,	NAME	Date of Joining	Date of leaving	
1	Prof. Visay Kumar Mathotra,	5.6.2000	13.6.2000	
	Chalman	Guwahati	Celcuite	
2.	Stri Prasanna Acharya	5.6.2000	12.6.2000	
	ľ	Guwahoti	Colculla	
3	Shri Sudip Bandyopadhyay	06.6.2000	08.6.2000	
		Guwahati	Calcutta	
		12.06.2000	12.06.2000	
	·	Calculta	Calculta	
4.	ShriSurinder Shigh Barwala	5.6.20DO	13,6,2000	
<u> </u>		Ouwahati	Calculla	
5.	Shri R L Bhalia	5.6.2000	8.8.2000	
<u> </u>		Guwaheti	Çelcuite	
в.	Shri Shivraj Singh Chauhan	6.6.2000	13.6,2000	
!		Guwahati	Calculta	
7.	Maj.Gen.(Reid)BC	6.6.2000	9.6,2000	
	Khanduri *	Guwahati	Calculta	
8.	Shri K E Krishnamurthy	8.6.2000	12.6.2000	
		Calculta	Calcutta	
ð.	Shri Dherem Rej Singh	5.6.2000	12.6.2000	
	Patel	Guwahati	Celcutta	
10.	Shri R P Rudy	5.8.2000	7.6.2000	
	1	Guwahali	Shillong	
	1	9.6.2000	11.8.2000	
	1	Darjeeling	Darjeeling	
11,	Shri Terit Baran Topdar	5.6.2000	8.6.2000	
1		Guwahati	Calcutta	
		12.6.2000	13.5.200D	
	 _ ,	Calcuita	Celcutta	
12,	Shri Devendra Prasad	8.6.2000	13.6.2000	
	Yaday	Galcuite	Calculta	
13.	Shri Jibon Roy	5.6.2000	7.0.2000	
		Guwahati	Cuwahati	
		9.6.2000	11.6.2000	
		Darjeeling	Darjeeling	
14. Smt. Ambika Soni 8.6.2000 8.6.2000				
' -	OIIII Ambaa oom	Guwahati	Calcutta	
16.	Shri Renjan Prasad Yadav	5,6,2000	12.6.2000	
10.	Offil (Aprilant Lipper Local)	Guwahali	Calculta	
16.	Shri K Katavenkata Rao	ข้.8.2000	12.B.2000	
,	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Calculta	Çelcutta	
17.	Shri B P Singhal	8,6,200D	13.6.2000	
•••	Similar	Calculta	Calculte	
18,	Shri Satish Chandra	8.6.2000	11,6,2000	
,	Silaram Pradhan	Calcutta	Darjeeling	
	Gitaratii i tavitifii v		_ 1	

SECRETARIAT

- 1, , Shri S Bal Shekar, Director
- 2. Shri Raj Kumar, Under Secy

9,6,2000 -(Priday)

<u>:</u>

0900 hrs.

Departure for Beglogie by IC-721.

[400 his.

Antical Degdops.

1430 hrs.

Departure for Darjoeling by road.

(Appens. 75 km.)

1800 krs.

Aprival Darjoeling

(Night habt at Darjeeling)

10.6.2000 (Saturday)

1600 hrau

Discussion with the officers of Andrew Yuka

At Company Ltd.

(<u>Night halt at Darjerllog</u>)

11.6.2000 (Sunday) 0900 hrs.

Discussion with the officers of National

Mydroelectric Power Corporation

(Nieht balt at Darleeline)

12.6.2000 (Monday) Olda bis.

Departure for Bagdogra by road.

1136 hrs.

Anival Bagdogra

Departure for Calcums by IC-722.

1410 hrs.

Arrival Calcona.

1600 hrs.

Discussion with the officers of IBP Co. Ltd.

DISPERSAL