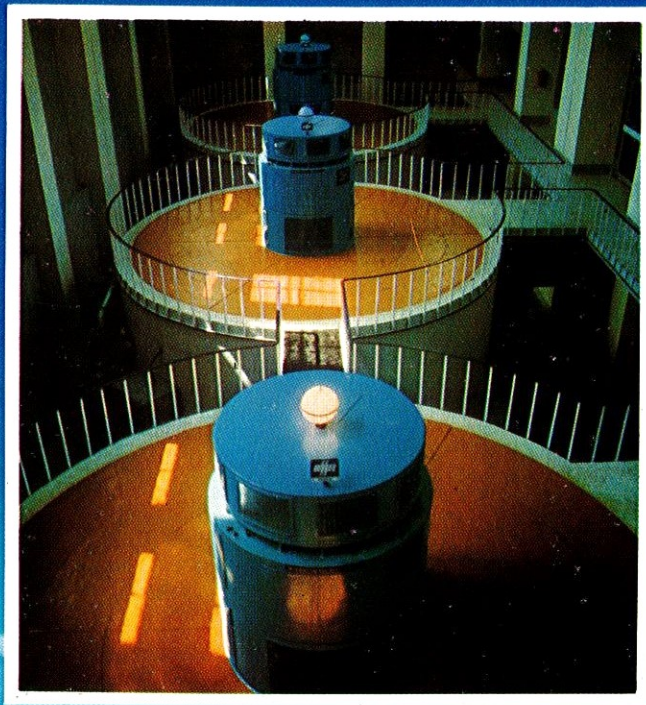


# EIGHTH ANNUAL REPORT 1983-84



National Hydroelectric  
Power Corporation Ltd.





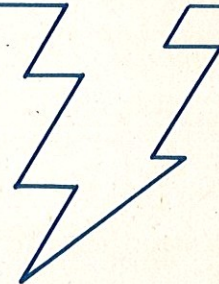


# National Hydroelectric Power Corporation Ltd.



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# National Hydroelectric Power Corporation Ltd.



## BOARD OF DIRECTORS

### Chairman & Managing Director

Pirzada Ghulam Nabi

### Directors

Shri A.N. Singh

Shri V. Subramanian,  
Director (Finance)

(upto 31.5.84)

Smt. Sarala Gobalan,  
(upto 30.4.84)

Shri C.S. Hukmani

Shri Satish Khurana

Shri K. Padmanabhaiah  
(From 29.5.84)

Shri K.K. Kashyap,  
Director (Technical)  
(From 30.8.84)

Shri. R. Rajagopalan,  
Director (Finance)  
(From 14.9.84)

### Secretary

Shri N.V. Raman

### AUDITORS: Statutory Auditors

M/s S.L. Khindaria & Co.  
S-215 Panchshila Park,  
New Delhi.

### Branch Auditors

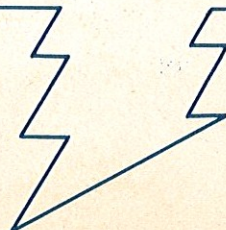
- (i) M/s APS Associates  
3/2 Madan Street (First Floor)  
Calcutta-700 072.
- (ii) M/s K.B. Chandna & Co.  
E-27, N.D.S.E. II  
New Delhi-110 049

### Bankers

State Bank of India

### Registered Office

'Hemkunt Tower'  
98-Nehru Place,  
New Delhi-110 019









# National Hydroelectric Power Corporation Ltd.



## CHAIRMAN'S SPEECH

**Dear Friends,**

It gives me great pleasure to welcome you to the 8th Annual General Meeting of the National Hydroelectric Power Corporation. The Audited Accounts of the Corporation for 1983-84 and the Directors' Report along with the Auditors' Report are before you for consideration and adoption.

The year under report was characterised by all round expansion in the activities of the Corporation and there have been a number of significant developments during this year. The Baira Siul Project which commenced commercial generation on 1st April, 1982 generated about 850 million units during 1983-84 and the capacity utilisation was 92.33% as against 89.23% in the last year i.e. 1982-83. As reported to you on the occasion of the 7th Annual General Meeting, the generation from Loktak Project was disrupted by the collapse of a small part of the tunnel. But I am glad to inform you that the rectification works have been carried out with expedition and more or less on schedule. The Project has been recommissioned on 6th August, 1984.

An important landmark during the year has been the completion of the Devighat Project in Nepal in December, 1983 nearly 2 years ahead of schedule despite numerous difficulties and bottlenecks. The Power House was formally inaugurated by His Majesty the King of Nepal on 9th March, 1984. The efforts of the Corporation as a whole

and especially the engineers and other field staff working on the Project, found well merited appreciation from the Nepalese Government and the Government of India.

There was a slight setback to the activity in the Salal Project due to sudden floods in March, 1984 and also because of difficulty in the movement of men and materials through the Punjab. I am, however, hopeful that the scheduled date of commissioning of the first unit of the Project i.e. 31st December, 1985 would not be affected materially. The Project is the largest and the most complex amongst those under construction by the Corporation. Its construction has been a running battle against elemental forces of nature and multitudinous geotechnical problems. I can, however, say with confidence that we are proving equal to the task. With detailed and realistic rescheduling as also the provision of necessary technical and managerial inputs, there has been a marked acceleration in the tempo of the work. We are very much in sight of the goal of its long-delayed completion.

The construction of the 390 MW Dul Hasti Project was started in 1982-83 and has been considerably stepped up during the year under report. Detailed engineering of the various components of the Project has been, by and large, accomplished and the infrastructural works are well on the way to completion. A schedule of construction of the Project has been drawn up with a view to complete it



# National Hydroelectric Power Corporation Ltd.



within a period of 7-8 years. In this connection I may mention that two offers of foreign financial assistance for the construction of the Project have been received by the Government of India—the first from an Austrian Consortium and the second from a French Consortium. They are backed by their respective Governments. These offers are under examination and a decision is expected to be taken shortly.

An event of great importance for the future of the Corporation during the year is the commencement of the work on the 540 MW Chamara Project with Canadian financial and technical aid. The overall Agreements with the Canadian International Development Agency (CIDA) and the Export Development Corporation of Canada signed in the beginning of August, 1984 envisage financing of the Project to the extent of 648 million Canadian Dollars including the assistance from the CIDA's Power Sector Line of Credit. What is, however, more noteworthy is that the Project is scheduled to be completed within a period of six years which (viewed against the ten to twelve years that hydroelectric projects of this size have taken for completion in India) will constitute a major breakthrough in the Power Sector.

The Corporation is also poised to start work on the 120 MW Tanakpur Project in Uttar Pradesh. This Project will be the harbinger of the exploitation of the vast hydel power potential available in the Sarda Valley. Simultaneously with the execution of the Project,

investigations in the Valley are proceeding apace and the Feasibility Report for one of the priority projects i.e. Dhauliganga Project is expected to be ready by March, 1985, with Swedish technical and financial assistance.

I am also happy to inform you that the Jammu & Kashmir Government have conveyed their acceptance to the Central Power Sharing Formula for the 480 MW Uri Project. This is one of the projects selected for advance action for the Seventh Plan and to ensure its speedy construction, some work on the ground is scheduled to be started during the current year. Techno-economic clearance to the Project is under way in the Central Electricity Authority and the Project estimate is likely to be submitted to the Public Investment Board before the end of the current calendar year.

The Transmission Lines under execution in the Corporation, notably the Chukha Transmission System, are more or less on schedule. The 400 KV Jeypore-Talchar line recently assigned to the Corporation is also expected to be started soon with the signing of the relevant agreements with the Orissa State Electricity Board in early October, 1984.

One of the areas where we have not been able to make much headway is the Koel Karo Project in Bihar where the situation of lack of access to the Project site continues despite concerted efforts by Government of India and the Government of Bihar and your Corporation. I am afraid that in the event the stalemate at the Project does not show signs of

breaking up in the near future, we may have to consider very earnestly whether to continue with the Project at all or not.

While the Corporation has been steadily expanding its activities, it is only during the last year that a process of planning has been initiated in order to cope effectively with the challenges that the development of hydroelectric power in the Central Sector poses for the Corporation. A fifteen-year Perspective Plan and the Concomitant Corporate Plan for the shorter term have been prepared and are being shortly put up to the Board of Directors for approval. This has been done in close association with CEA and other organisations concerned. The Plans, when finalised, would provide a defined strategy and a much-needed orientation for the activities of the Corporation. It is proposed to take up projects with a total installed capacity of 4,900 MW during the Seventh Plan Period and to commission more than 1000 MW of power in various regions of the country during this Plan.

The *sine qua non* for the speedy completion of hydroelectric projects is effective project management and day-to-day monitoring in accordance with the modern concepts and procedure. With this end in view, your Corporation is constantly introducing systemic improvements. A stage has arrived now when computerised management in all facets of our activities is called for. Accordingly, a Computer Programme has been drawn up as part of the Canadian Transfer of



# National Hydroelectric Power Corporation Ltd.



Technology for the Chamera Project and put under implementation. The scope of the computerisation will be gradually widened and in two years from now, all our operations will be encompassed thereby.

I am grateful to the Honourable Minister for Energy and Honourable Minister of State for Energy for all the encouragement and guidance given to me. I am also thankful to the Secretary, Department of Power and all the officers of the Ministry of

Energy, Department of Power and other Departments of the Government of India for their unstinted help. I would also be remiss in my duty if I do not express my gratitude to the Governments of Himachal Pradesh, Manipur, Jammu & Kashmir and Uttar Pradesh for their cooperation in the resolution of the various problems involving action on their part in their respective States. My thanks are due to all of you for the guidance and cooperation that I have received. I

am thankful to my colleagues for their devoted service and cooperation but for which the achievements of the Corporation would not have been possible.

*Pirzada Ghulam Nabi*  
Chairman & Managing Director

New Delhi.

Date: 29th September, 1984.



# National Hydroelectric Power Corporation Ltd.



## DIRECTORS' REPORT TO SHAREHOLDERS

**Dear Shareholders,**

I have great pleasure in presenting to you, on behalf of the Board of Directors, the 8th Annual Report on the working of the Corporation together with the audited accounts and the Auditors' Report thereon for the year ended 31st March, 1984.

### 2. FINANCIAL HIGHLIGHTS

- (a) The financial highlights of the operating units for the year were as under:

	(Rupees in lakhs)	
1) Gross profit before providing for depreciation & interest	1819.35	
LESS:		
i) Depreciation	1191.07	
ii) Interest on Govt. Loans	1275.06	2466.13
2) Net loss for the year	646.78	
3) Preliminary expenses written off	4.00	
4) Loss carried to Balance sheet	650.78	

While fixing the tariff for sale of power, the Corporation is taking into account depreciation as per Electricity Supply Act whereas in the Annual Accounts the depreciation has been charged as per the Companies Act. Had the depreciation as provided under the Electricity Supply Act been followed and assuming that such depreciation is not to be provided in the year in which an asset is put to use first, there would have been a substantial change in the net working result

of the Corporation for 1983-84, and the Corporation would have registered a net profit of Rs.3.00 crores (approx.) instead of a net loss of Rs.6.51 crores as shown in the Annual Accounts for 1983-84, and for the year 1982-83 the net profit of the Corporation would have gone up from Rs.7.68 crores to Rs.11.90 crores.

The contribution from the Corporation to the Public Exchequer during the year was Rs.1565.06 lakhs including interest on Government Loans.

The net internal resources generated during the year were of the order of Rs.540.29 lakhs.

### (b) Share Capital

The Authorised Share Capital of the Corporation remained at Rs.400 crores during the year. The issued, subscribed and paid-up capital, however, increased from Rs.129.8213 crores to Rs.165.6063 crores during the year. All the shares were entirely subscribed by the Central Government. An amount of Rs.54.8340 crores has been kept in Share Money Deposit during the year pending allotment of shares as on 31st March, 1984.

### (c) Loans

During the year, the Corporation has taken fresh loans totalling Rs.13.90 crores from Government of India. The total amount of loans, however, has been reduced from Rs.149.8786 crores

to Rs.137.1464 crores mainly on account of rescheduling of loans.

### 3. PERFORMANCE OF OPERATING PROJECTS

#### (a) Baira Siul HE Project:

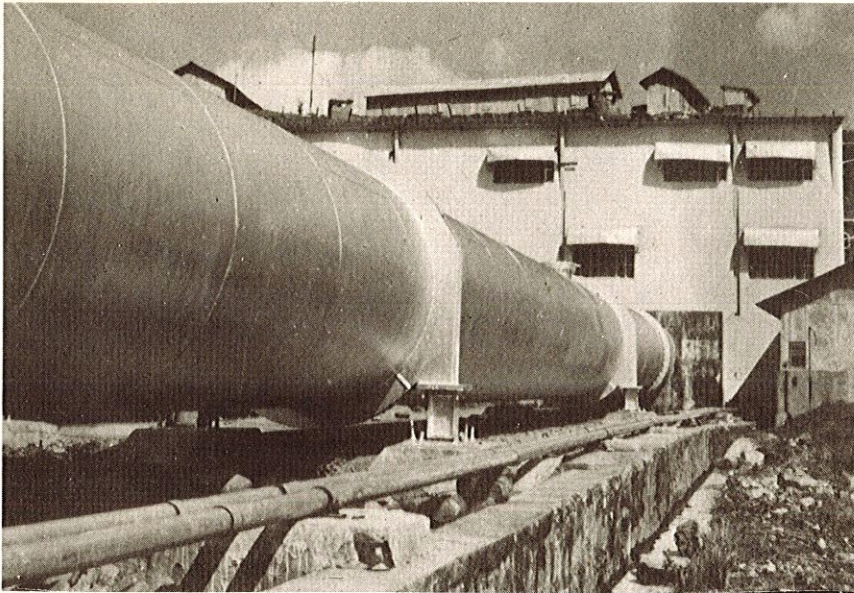
The quantum of electricity generated from Baira Siul Hydroelectric Project during the year was 849.48 MU, recording an increase of 285 lakh units over 1982-83. The sale of power from the Project during the year amounted to Rs.2368.78 lakhs. The capacity utilisation of this Project increased during the year under report from 89.23% to 92.33%. The Corporation signed formal Agreements for sale of Baira Siul power with the PSEB and HSEB in June, 1983. Draft Agreement for sale of power from this Project with DESU is under finalisation.

#### (b) Loktak HE Project

The Loktak Hydroelectric Project was commissioned during the year in June, 1983. However, as reported to you in the last report, due to heavy rains, a massive land-slide occurred in the low cover reach portion of the tunnel damaging 35 metres length of the tunnel on 25th July, 1983. Power generation was, consequently, disrupted. As against the target of 2820 lakh units up to 25th July, 1983 when generation of power had to be stopped, the Project had generated 509.82 lakh units including generation during trial run. The sale of power from the Project for the period upto



# National Hydroelectric Power Corporation Ltd.



*View of the Penstock of Loktak.*

25.7.1983 amounted to Rs.151.90 lakhs.

After detailed geological investigations and technical examinations by experts, the restoration works including re-routing of the tunnel have since been completed. The Project has been recommissioned and power generation has commenced from 6th August, 1984.

#### **(c) Devighat HE Project:**

All the three Units of Devighat H.E. Project in Nepal were commissioned by December, 1983, nearly 2 years ahead of the scheduled date of commissioning. The Project was inaugurated by His Majesty the King of Nepal in March, 1984. In accordance with the Agreement executed between the Government of India and HMG of Nepal, the Project was

to be taken over by the HMG of Nepal within 6 months of the completion of the Project, and accordingly, the Project should

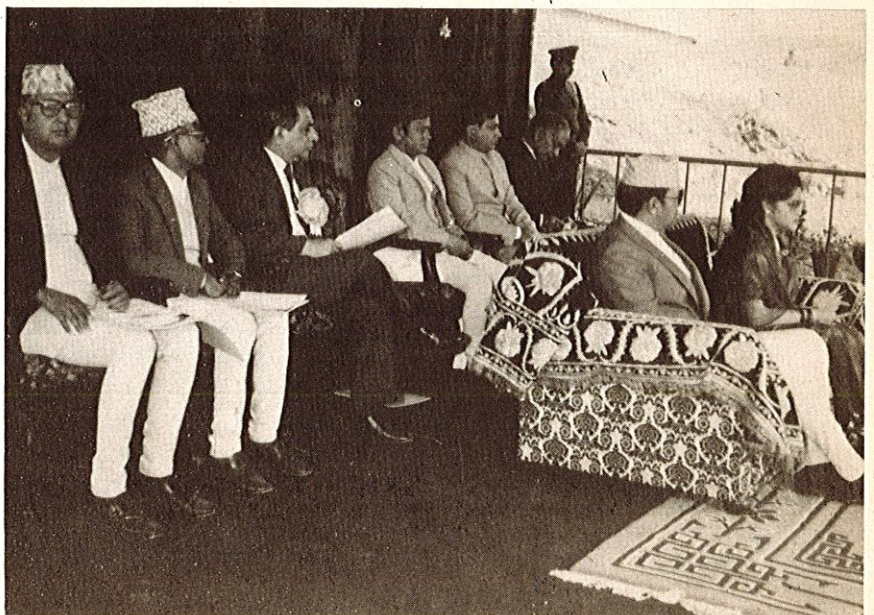
have been taken over by the HMG of Nepal in June, 1984. However, at the request of HMG of Nepal the handing over of the Project has been postponed by a few months by the Government of India, Ministry of External Affairs. It is expected that the Project may be handed over to HMG of Nepal within one or two months.

#### **4. PROGRESS OF PROJECTS UNDER CONSTRUCTION**

##### **(a) Salal HE Project:**

###### *Concrete Dam*

Against a target of 359TM<sup>3</sup> of concreting, the Project achieved a placement of 352TM<sup>3</sup> during the year. The levels of various blocks as planned for the year were achieved. This activity is progressing almost as per



*Inaugural Ceremony of Devighat.*



# National Hydroelectric Power Corporation Ltd.



schedule, and is to be completed by June, 1985.

## *Hydromechanical Works*

Fabrication of sluice gates has been completed and fabrication work of bell mouth and steel liner are progressing as per schedule. The work of silt excluder gates and hoists is also progressing on schedule.

Trash rack fabrication has been completed on time. About 75% embedded parts for gates and stoplogs have been manufactured. The progress of this work is satisfactory.

The order for radial gates, hoists and stoplogs was placed in October, 1982. Three out of 12 gates have been completed and two more are in an advanced stage of completion. This work is behind schedule due to non-availability of steel for which necessary help is being rendered to the suppliers to enable them to complete the job in time.

## *Rockfill Dam*

During the year, 1980.33TM<sup>3</sup> of fill placement was achieved against a target of 1951.33TM<sup>3</sup>. As per the programme, the dam had been raised to a safe level of El.455 by June, 1984. This activity has been progressing as per schedule and is scheduled to be completed by May, 1985.

## *Power House*

71 TM<sup>3</sup> representing 47% of excavation and 22TM<sup>3</sup>



*work in progress on the Rockfill Dam at Salal.*

representing 17% of concreting have been completed. Foundation concreting for Unit 1 and Unit 2 and Service Bay floor has been completed during the year. Erection of scroll casing for Unit 1 and Unit 2 has been taken up and is in progress. Columns have been raised and beams cast in the Service Bay. Erection of E.O.T. Crane will start soon. Progress of Power House work is lagging behind schedule. However, the matter has been discussed with the Contractor who is confident about completing the work in time.

## *Penstocks*

31.59TM<sup>3</sup> of concreting and 65.6TM<sup>3</sup> of excavation have been completed against a target of 36.10TM<sup>3</sup> and 82.18 TM<sup>3</sup> respectively. The work of concrete pads for Stage-I in river

bed portion has been taken up. This activity is scheduled for completion by June, 1985.

Fabrication of Penstock pipes for about 4450 MT has been completed against a programme of 4500 MT. Erection of Penstock pipes in river bed portion was to start from 20th March, 1984. This activity could not be taken up due to flooding of penstock area. This work is scheduled for completion by June, 1985.

## *Tail Race Tunnel*

During the year, 333 M of heading, 162 M of benching and 380 M of concrete lining have been completed. A cumulative progress of 1768 M of heading, 771 M of benching and 520 M of concrete lining has been achieved against total length of 2410 M.



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Work from exit face was suspended due to heavy seepage of water at the heading resulting in heavy ingress of water associated with free movement of material. A proposal for stabilisation of tunnel face by chemical grouting by importing foreign technology is under finalisation. The progress is likely to improve after chemical grouting of this area. The tunnel is scheduled to be completed by June, 1985.

## *Drainage Gallery*

Tunnel excavation is in progress and 53.4% of the work has been completed as on end March, 1984. This activity is progressing as per programme and is expected to be completed by November 1985.

## *Plunge Pool*

232.33TM<sup>3</sup> of excavation has been completed against the programme of 263.13TM<sup>3</sup>. The concreting and shotcreting activities have also been taken up during the year and are in progress. The work was suspended due to flooding of Plunge Pool area and is expected to be resumed from November, 1984. Though the work is lagging behind, it is expected that the entire work will be completed in time.

## *River Joining Works*

A progress of 157 TM<sup>3</sup> of excavation was achieved against the programme of 135TM<sup>3</sup>. This

work has been progressing satisfactorily and is expected to be completed by April, 1985.

## *Schedule of Completion of the Project*

The Project activities have suffered some set back due to floods, technological problems etc. However, all-out efforts are being made by your Corporation and it is expected that the scheduled date of commissioning of the first unit of December, 1985 shall be adhered to.

## **(b) Dul Hasti HE Project:**

The pre-construction and infrastructure works were taken up during the year 1983-84. Geophysical surveys of the Head Race Tunnel were completed. Exploratory drilling and drifting were in progress on various locations to firm up the design parameters. Action was also initiated to identify land required for the Project and initiate acquisition proceedings. Work was also progressing on various access roads to various work sites. Work on the Pilot Tunnel was started departmentally and tunnel boring was completed in a length of 174M. Award of Contract for desilting basin and intake structure is under finalisation. Designs and specifications for major works such as Power House, Dam Site, Head Race Tunnel are in progress. Arrangements for construction power are being finalised.

## **(c) Koel Karo HE Project:**

As reported to you in the last Meeting, the barricades put up by the local people preventing access to the Project Sites were removed in September, 1983. However, this position remained only for a few days as the barricades were erected again. Continued efforts were made by the Corporation with the good offices of the Central Government and the State Government and, as a result, the barricades were again removed and the Project Authorities were allowed access to the Project Sites again from January, 1984. But the Project Authorities are not being allowed to start any work by the local people. Further efforts are continuing for sorting out the matters with the local people.

You would appreciate that your Corporation has not left any stone unturned for expediting commencement of the construction of the Project work. However, for reasons beyond its control, the construction work on the Project could not commence even after more than 3½ years of setting up of the Project Office. If things do not improve, your Corporation would review in the beginning of next year, whether its presence at Project site would be necessary or not. In the meanwhile, as suggested by the Administrative Ministry, steps are being taken to keep the minimum personnel at the Project site.



# National Hydroelectric Power Corporation Ltd.



## 5. New Projects:

### (a) Chamara HE Project:

In November, 1983, a Memorandum of Agreement in principle, was signed between the Government of India and the Canadian International Development Agency (CIDA) and the Export Development Corporation (EDC) of Canada for providing financial support for a defined portion of the Chamara Project. In accordance with the Memorandum, CIDA made available an amount of Canadian \$ 3.43 million from the existing power line of credit to meet the cost of pre-engineering services and goods for the period from December, 1983 to April, 1984, relating to the preparation of Project layout, design briefs for all components of the Project, identification of contract packages, computer studies, systems etc. CIDA made available further funds amounting to Canadian \$ 25 million from the existing power line of credit for meeting the cost of construction and tunnelling equipment and certain materials. CIDA was to make available further a loan of Canadian \$ 217 million and EDC was to provide US \$ equivalent of Canadian \$ 403 million for meeting the cost of Canadian goods and other related services for the construction of the Chamara Project. According to the Memorandum of Agreement, Marine Industries Limited,



*Signing of agreement of Chamara.*

Canada would supply Turbine Core Package while the Canadian General Electric Company would supply Generator Core Package for the Project. SNC/ACRES are to provide consultancy services in the areas of Project Management, construction assistance, engineering services, procurement services etc. The Agreement with these Canadian Parties has since been signed by NHPC on 3rd August, 1984 with the approval of the Government of India. Your Corporation has also signed an Agreement with the Export Development Corporation of Canada for financing of US \$ equivalent of Canadian \$ 403 million. The Government of India has signed an Agreement with the CIDA for making available Canadian \$ 217 million. SNC/ACRES have

mobilised and started their work on the construction phase of the Project.

A schedule of award of contracts for various works has been drawn up and the first of the major contracts for the Diversion Tunnel for the Project has already been awarded in August, 1984 as scheduled. The Project is to be completed in a period of 6 years from 1st April, 1984.

### (b) Tanakpur HE Project:

During the year, certain preconstruction investigation works were completed. The construction work on the Project has started during the current year for which necessary advance action had already been taken by the Corporation. The expenditure sanction for the



# National Hydroelectric Power Corporation Ltd.



Project has recently been received. The pre-qualification for the various contracts is being finalised. Orders for generating equipment are being finalised.

## 6. INVESTIGATION PROJECTS:

### (a) Dhaleswari HE Project (Mizoram):

The major field investigations were completed during the year. Hydrological and Meteorological observations are being continued. A draft detailed project report has been prepared and is being finalised for submission to CEA for techno-economic clearance.

### (b) Dhauliganga HE Project (UP):

The Corporation had carried out certain investigations like Geological studies, Topographical surveys and discharge observations for preparing the feasibility report of the Dhauliganga H.E. Project Stage-I.

The Corporation has entered into two agreements in April, 1984 with the approval of the Government of India with Swedish Power Services (Swed

Power) for consultancy for the Investigations and for procurement of specialised equipment from Sweden. Under these agreements, the Swedish International Development Authority has agreed to provide financial assistance by way of grant to the tune of SEK 6.15 million, out of which SEK 3.70 million will be used for purchase of specialised equipment required for investigations of the project and SEK 2.45 million for consultancy services to be rendered by Swed Power under the Agreement. As a part of the Consultancy Services, Swed Power will provide consultancy services to the extent of 30 man-months for assisting NHPC in preparing the feasibility report of the Project. They will also assist NHPC in finalising the construction methods, scheduling, planning and framing of cost estimates. They will also review the master plan for the development of hydroelectric potential of the River Dhauliganga to the extent of fixing the design parameters of the Project.

Some of the equipment to be procured from Sweden will include:

- Overcoring Rock Stress Measuring Equipment.
- Deep Diamond Core Drilling Rig for Drilling upto 500 m length.
- Internal Rock Fracturing Equipment for determination of rock stresses etc.

## 7. TRANSMISSION LINES:

- (a) Construction of 66 KV D/C Devghat-Chabel Transmission Line along with 66/11 KV Sub-station at Chabel was completed during the year 1983-84. Construction of 132 KV S/C Liematak-Jiribam transmission line was completed by NHPC during the year 1982-83 on behalf of Manipur Government. But since this transmission line was not taken over by the State Government, the same was energised and maintained by the Corporation during the year 1983-84. The line has since been taken over by the Govt. of Manipur in April, 1984.
- (b) Progress of the on-going transmission lines is given below:

Sl. No.	Particulars of Transmission Line	Target date of completion	Progress of works completed upto 31st March, 1984
1	2	3	4
1.	220 KV Transmission System (Indian Portion) associated with Chukha Project.	March, 1985	Survey work on all the associated transmission lines was completed. Stub setting for 1439 locations and erection of towers for 1003 locations was completed against a total of 1876 locations. Stringing of 63 km of transmission line (including 28 km in Birpara-Phuntsholing 220 KV D/C portion) was also completed. Land for all the sub-stations has been acquired. Civil Works for construction of residential and non-residential buildings were almost



# National Hydroelectric Power Corporation Ltd.



Sl. No.	Particulars of Transmission Line	Target date of completion	Progress of works completed upto 31st March, 1984
1	2	3	4

completed. Casting of foundations for the sub-station equipment has also commenced. The Chukha Transmission System, besides the other river crossings, involves one major crossing on River Ganga in Malda-Farakka Section of the line. It involves 5 Nos. well type foundations for which contract has been awarded. The work on all the 5 locations is in progress.

2. 220 KV Transmission Lines: April, 1985  
Salal-Jammu and Salal-Udhampur associated with Salal H.E. Project.

On the Salal-Jammu portion of the line, upto March, 1984, Survey work in 56 kms. and Stub-setting in 109 locations were done. Upto July, 1984, Stub-setting was done in 136 locations and erection was done in 71 locations.

On the Salal-Udhampur portion of the line, upto March 1984, Survey was completed in 15 kms and stub-setting done in 17 locations.

3. 400 KV Jeypore-Talcher Transmission System March, 1987

Pursuant to the discussions held in the Ministry of Energy, it has been decided that the execution of the Transmission Line should be entrusted to OSEB on agency basis. However, the three Sub-stations at Rengali, Jeypore and Indravati would be executed by NHPC. Formal agreement with OSEB for execution of the work relating to the Transmission Line on agency basis is expected to be concluded shortly.

4. 132 KVS/C Udhampur-Kishtwar Transmission Line December, 1985.

Detailed engineering for the transmission line completed. Walk over survey on the route of the transmission line has also been completed.

## (c) New Transmission Lines

- (i) Feasibility Report for 400 KV Transmission System associated with Dul Hasti Hydroelectric Project with an outlay of Rs. 135.54 crores including Rs. 14.98 crores as IDC, has been accorded techno-economic clearance by CEA.
- (ii) The Feasibility Report for 132

KV S/C Liematak-Jiribam Transmission Line (second circuit) has also been cleared by Planning Commission at a total cost of Rs. 4.97 crores. The Transmission Line has been planned to facilitate effective and reliable evacuation system for Loktak power in Central Sector to be constructed by NHPC. The

completion schedule for the Transmission Line is March, 1987 and the ground work will commence in 1984-85.

## 8. HYDROELECTRIC PROJECTS LIKELY TO BE TAKEN UP IN THE NEAR FUTURE

- (a) Rangit HE Project (Sikkim):  
The Feasibility Report of Rangit



# National Hydroelectric Power Corporation Ltd.



HE Project has been techno-economically cleared by Central Electricity Authority in January 1984. The cost estimates updated to April, 1984 price level for Rs.10311.37 lakhs (Gross) and Rs.10048.32 lakhs (Net) and the Public Investment Board Memo were submitted to Department of Power in June, 1984. The investment decision is awaited.

## (b) Uri HE Project (J&K):

The cost estimates of the Project revised to Rs.499.25 crores (Gross) and Rs.486.36 crores (Net) have been submitted to C.E.A. for techno-economic clearance. As directed by the Administrative Ministry, a conditional letter of intent is proposed to be issued subject to clearance of the Project by PIB, for supply of Generating Equipment for the Project as part of the advance action.

## 9. PERSONNEL & INDUSTRIAL RELATIONS:

During the period under report, the employee-employer relationship generally remained cordial.

Emphasis continued to be laid on the formulation of Corporation's Policies and Rules to evolve a philosophy and culture of its own.

## 10. TRAINING AND DEVELOPMENT:

The Corporation continued to provide opportunities to its employees at all levels to acquaint themselves with

modern management, technical concepts and latest innovations in the field of Hydroelectric Power Development. During the year 1983-84, 205 employees were sponsored to attend seminars, symposia, conferences and short duration refresher courses organised by various agencies.

16 Engineers were deputed for training in BHEL. The training programme covered the products manufactured by BHEL like Hydro Turbines, Hydro-generator, transformer, switch-gear and control panels, capacitors, Rectifiers etc.

Comprehensive short-term and long-term training plans are being prepared for programmes in India and abroad. A series of programmes on Basic EDP concepts and computer awareness covering the different levels of management are being organised in collaboration with a premier institution engaged in the field of computer training.

The first batch of 46 linemen completed their training at the Trades Training Centre at Malda in March, 1984.

## Technology Transfer and Technical Training Programmes in Canada

Under the Pre-Engineering Agreement with SNC/ACRES of Canada for the Chamera Project, SNC/ACRES provided training to NHPC Personnel for about 60 man-months in areas of

management, engineering and procurement services.

Further, under the agreement signed with the Canadian parties for the construction phase of the Chamera Project, the Canadian parties are to impart Technology Transfer and Technical Training to NHPC Personnel for 750 man-months.

## 11. VIGILANCE ACTIVITIES:

The Corporation continued to give due importance to vigilance activities during the year. Cases of complaints were enquired into and after investigation, appropriate penalties were awarded in some cases. Surprise and periodical inspections were also carried out during the year. The Corporation also attaches importance to preventive vigilance and issued a number of instructions in this regard.

## 12. USE OF HINDI:

As in the earlier years, during the year under report also, steps were taken for progressive use of Hindi in the Corporation. The Official Language Implementation Committee of the Corporation met regularly to review the progress made in this direction.

The Hindi version of the Personnel Manual has been printed.

Three workshops were organised in Corporate Office for training in Noting and Drafting in Hindi in which 21 employees participated. A Debate in Hindi



# National Hydroelectric Power Corporation Ltd.



was organised in September, 1983.

## 13. OTHER FINANCIAL ASPECTS

(a) **Entertainment:** The entertainment expenditure incurred during the year was Rs.1.67 lakhs at Projects owned by the Corporation and Rs.0.77 lakhs at deposit works and at Projects on agency basis.

(b) **Advertisement & Publicity:** The total expenditure on advertisement & publicity amounted to Rs.22.53 lakhs with the following break-up:—

(Rs. in lakhs)

1) On propaganda & publicity	9.77
2) Advertisement through DAVP	—
3) Advertisement through other sources	12.76

(c) **Guest Houses:** The expenditure on maintenance of guest houses/field hostels was Rs.7.64 lakhs.

(d) **Rent, Maintenance & other miscellaneous expenditure of Corporate Office:** Following was the expenditure on maintenance of furniture & fixtures etc. in the Corporate Office during the year:

(Rs. in lakhs)

(i) Rent—Office buildings	46.93
(ii) Furniture—capital cost	4.05
(iii) Office equipment cost	10.96
(iv) Communication equipment cost	0.10
(v) Maintenance cost of items at (i) to (iv) above	4.92
(vi) Electricity and water charges	1.83
(vii) Other administrative expenses including printing & stationery, postage, telegram, telephone & Telex.	39.93

(e) **Foreign Tours:** A total amount of Rs.11.77 lakhs including expenditure in foreign exchange was incurred by the Corporation on foreign travel for various Corporation purposes.

(f) **Social Overheads:** Expenditure on maintenance of townships, education & health facilities is as under:

	Township	Education	Health Facilities
(Rs. in lakhs)			
1. Baira Siul	83.74	5.96	7.48
2. Loktak	8.22	2.82	3.00
3. Corp. Office	—	—	9.03
4. Koel Karo	3.82	0.01	0.97
5. Chukha TCU	—	—	1.45
6. Dulhasti	—	—	0.27
7. Chamera	—	—	0.04

## 14. AUDITORS

For the audit of the Accounts of the Corporation for the year 1983-84, M/s S.L. Khindaria & Co., New Delhi have been reappointed as Statutory Auditors. M/s. K.B. Chandna & Co., New Delhi and M/s. APS Associates, Calcutta have also been reappointed as Branch Auditors for the year.

## 15. COMMENTS ON THE QUALIFICATIONS OF THE AUDITORS

The comments of the Directors on the Qualifications made by the Auditors in their Report are given in Annexure-I to this Report.

## 16. PARTICULARS OF EMPLOYEES

Information as per Section 217(2A) of the Companies Act,

1956 read with Companies (Particulars of Employees) Rules, 1975 is given in Annexure-II forming part of this Report.

## 17. DIRECTORS:

Smt. Sarala Gopalan, Joint Secretary, Department of Power ceased to be a Director on the Board of Directors of the Corporation on her relinquishing the charge of the post of Joint Secretary, Department of Power on 30.4.1984. Shri V. Subramanian resigned as Director (Finance) w.e.f. 31st May, 1984 (AN). The Board place on record their appreciation of the valuable services rendered by Smt. Sarala Gopalan and Shri V. Subramanian.

Shri K. Padmanabhaiah, Joint Secretary, Department of Power was appointed as a Director on the Board of Directors of the Corporation w.e.f. 29.5.1984. Shri K.K. Kashyap and Shri R. Rajagopalan joined as Director (Technical) and Director (Finance) from 30.8.1984 and 14.9.1984 respectively.

## 18. ACKNOWLEDGEMENTS:

The Board acknowledge with thanks the guidance and help extended by the various Departments of the Government of India—particularly the Ministry of Energy (Department of Power), Ministry of Finance (Department of Economic Affairs), Ministry of External Affairs, Embassy of India in Nepal, the Central Electricity



# National Hydroelectric Power Corporation Ltd.



Authority, the Central Water Commission, CSMRS, the Survey of India; and also by HMG of Nepal. Thanks are also due to the State Governments of Manipur, West Bengal, Jammu & Kashmir, HP, UP, Bihar, Mizoram, Sikkim, Maharashtra, Orissa and the State Electricity Boards who have been cooperating with us in our works in their States. But for the help and assistance given by these and other agencies, it would not have

been possible for the Corporation to achieve the progress registered so far.

The Board of Directors are also grateful to the Comptroller & Auditor-General of India, the Auditors, and the Bankers for their valued cooperation.

The Board also take this opportunity to place on record their recognition and appreciation of the sincere and hard work done by the employees of the

Corporation at all levels and have no doubt that they will attain still better levels of performance in the years to come.

For and on behalf of the  
Board of Directors

Pirzada Ghulam Nabi  
Chairman & Managing Director

New Delhi.

Dated: 28th September, 1984



# National Hydroelectric Power Corporation Ltd.



## ANNEXURE I

### COMMENTS ON THE QUALIFICATIONS CONTAINED IN THE AUDITOR'S REPORT, 1983-84

Para in Auditors' Report	Comments
II 5(xv)	These mostly relate to small local purchases urgently required for the works. These have been directly taken to appropriate construction works in progress heads instead of routing through Central Stores Accounts.
II 5(xvi)	The depreciation was initially not worked out at the time Balance Sheet of the Koel Karo Project was finalised. Subsequently, the depreciation has been accounted for in the consolidated accounts of the Corporation.
II 5(xvii)	The Baira Siul Project was put into commercial operation on 1.4.1982 and all of the required works have been capitalised on 1.4.1982. The expenditure incurred after 1.4.1982 but up to 31.3.1983 has to be capitalised during the period in which these works have been finally completed and not on 1.4.1982.  Similarly adjustments pertaining to the period earlier than 1.4.82, which have been carried out during the current year, have to be capitalised during the period in which such adjustments have been completed.
II 5(xviii)	The allocation of certain expenses common to construction and operation activities at Baira Siul Project has been done in terms of the accounting policy No. 17.
II 5(xix)	The amount of gratuity recoverable from the Government of India, if any, has not been settled. The same shall be accounted for as and when gratuity amount is settled and received.
<b>Para in Annexure to Auditors' Report</b>	
A (i)	The review is in progress to indicate the situational details and year of acquisition in all applicable cases. The physical verification of fixed assets at various sites will be done during 1984-85 and discrepancies, if any, adjusted accordingly.
A (iii)	The physical verification of stores at Chukha and Koel Karo will be completed during 1984-85. Shortages etc. Will be adjusted after full investigation. Balance material issue notes at Dul Hasti Project will be adjusted during 1984-85.
A (vi)	A review will be made to strengthen the system of local purchases in the Projects. Emphasis will also be given to follow the laid down procedures.
A (x)	Scrap, as and when identified, is transferred to scrap accounts and suitable records maintained.



# National Hydroelectric Power Corporation Ltd.



- A (xi)** The existing scope of internal audit is sufficiently wide. Emphasis has been laid on covering the maximum activities of the Corporation as well as Projects by internal audit every year. The follow-up action on the audit report is being monitored at appropriate management level. The internal audit report on Dul Hasti Project has since been issued. However, steps are being taken to strengthen the Internal Audit System and to improve its effectiveness.
- A (xiii)** Due to difficulties in communication from the units situated at remote areas, there has been slight delay in some cases in remitting the Provident Fund money to the Trust.
- B (ii)** A rigorous internal control system exists in the Corporation. However, efforts are being made to make it more effective.

NOTE: Also subject to Explanatory Notes on Accounts.



# National Hydroelectric Power Corporation Ltd.



**INFORMATION REQUIRED UNDER SECTION 217 (2A)  
OF THE COMPANIES ACT, 1956 READ WITH  
COMPANIES (PARTICULARS OF EMPLOYEES) RULES,  
1975.**

## ANNEXURE II

Name & Designation	Remuneration (Rs.)	Nature of employment (Contractual or otherwise)	Qualification & Experience	Date of commencement of em- ployment in NHPC	Age (Years)	Last employment held
1	2	3	4	5	6	7
(A) (Particulars of Employees employed throughout the financial year who were in receipt of Remuneration not less than Rs.36,000/-p.a.)						
S/Shri Amar Nath, Manager	Rs. 72,383	Regular	B.A., SAS (27 Years)	20.09.76	52	Section Officer, Indian Audit & Accounts Deptt.
Appa Rao, Y.N. Dy. Manager	37,542	Regular	B.E. (Civil) M.E. (Hydropower) (15 Years)	01.08.77	38	Asstt. Engineer, CWC
Bajaj, V.M. Chief Engineer	53,580	Regular	B.E. (Civil) (28 Years)	10.05.79	51	Director (U.T.) CWC
Bakshi, R.K. Asstt. Manager	36,922	Regular	M.A. (27 Years)	04.11.78	49	Supdt., Office of C & AG of India
Bal Mukand Dy. Manager	40,887	Regular	B.Sc. Engg. (Mech.) (13 Years)	16.12.78	35	Asstt. Engineer, E.I.L.
Bansal, R.C. Manager	45,875	Regular	SAS (41 Years)	21.09.78	57	Audit Officer, Office of the Director of Audit Central Revenues, Delhi
Batish, O.P. Manager	38,511	Regular	B.A. (Hons.), SAS (33 Years)	20.06.78	57	Finance Officer & IAO HP University, Simla.
Bahadur, A.K. Asstt. Manager	39,049	On deputation from UPSEB	M.Sc. Engg. (Elect.) (10 Years)	02.11.79	35	Asstt. Engineer, UPSEB
Bhalla, S.N. Deputy Manager	39,051	Regular	B.A. (15 Years)	30.11.79	49	Research Officer, Central Vigilance Commission
Bhambani, Prakash Asstt. Manager	36,798	Regular	B.Tech. (E) (10 Years)	30.12.81	32	Asstt. Director, CEA.
Bhandari, D.N. Asstt. Manager	36,106	Regular	SAS (39 Years)	19.06.77	58	Section Officer, Office of FA & CAO, Northern Railway.
Bandhopadhyaya, M.R. Manager	36,395	On deputation from Geological Survey of India	M.Sc. (Applied Geology) (22 Years)	29.12.80	47	Geologist (Senior), Geological Survey of India.
Bhardwaj, H.C. Chief Engineer	83,667	On deputation from HPSEB.	B.Sc. (Engg.) (Civil) (25 Years)	10.02.76	44	Executive Engineer, HPSEB.
Bhattacharjee, J Dy. Manager	44,130	Regular	B.Sc., AICWA, SAS (29 Years)	24.01.80	48	Accounts Officer, IFC, Govt. of Manipur.
Bhattacharjee, M.N. Manager	44,456	Regular	M.A. (Eco.), PG Diploma in Pers. Mgt. (30 Years)	30.12.81	52	Asstt. Personnel Manager, Bharat Aluminium Co. Ltd.
Bhardwaj, S.R. Manager	37,412	Regular	M.A. (Eng.) Diploma in Journalism, Diploma in Marketing & Sales Mgt. (23 Years)	11.09.81	41	Public Relations Officer, National Fertilizers Ltd.
Boni, O.N. Manager	36,516	On deputation from PWD, J&K	B.Sc. (Civil) (23 Years)	29.07.77	44	Executive Engineer, Ministry of Energy
Chandrasekharan, A Dy. Manager	40,923	Regular	B.E. (Civil) (14 Years)	20.11.78	39	A.E., PWD, Madras.



# National Hydroelectric Power Corporation Ltd.



1	2	3	4	5	6	7
Chadha, B.R. Sr. Manager	49,414	On deputation from PWD, Punjab.	B.Sc. Engg. (Mech.) Grad. in Civil Engg. (27 Years)	15.07.78	48	Area Supdt., Punjab PWD (Irrigation Branch)
Chakraborty, D. Dy. Manager	40,032	Regular	M.Com., A.I.C.W.A. (13 Years)	09.06.78	47	Sr. Accountant, M/s NMDC Ltd., Bacholi (MP).
Chauhan, Maj. S.S. Manager	48,139	Regular	Degree in Civil Engg. (19 Years)	19.03.79	40	Major in Indian Army.
Chopra, M.L., Manager	47,286	Regular	B.A., P.G. Diploma in Public Administration (24 Years)	27.11.81	52	Liaison Officer, Chukha Hydel Project, Bhutan.
Chowdhary, Dr. G.H. Sr. Medical Officer	38,949	On deputation from Ministry of Health & Family Welfare	M.B.B.S. (13 Years)	15.05.78	38	Medical Officer, Ministry of Health & Family Welfare.
Dandecha, B.V. Asstt. Mgr.	36,504	Regular	B.E. (Mech.) (5 Years)	22.02.79	32	—
Desai, V.T. Research Officer	46,367	On deputation from Central Water & Power Research Station	M.Sc. (Phys.) (7 Years)	27.02.82	29	Research Assistant, Central Water & Power Research Station.
Dhar, S.K. Manager	38,134	Regular	M.Sc. (Tech) Elect. (24 Years)	31.12.81	51	Executive Engineer, Salal Project, Govt. of India.
Dhillon H.S. Asstt. Mgr.	44,001	On deputation from H.P.S.E.B.	Dip. in Civil Engg. A.M.I.E. (22 Years)	23.05.81	44	A.E.E., H.P.S.E.B.
Divatia, (Miss)E. Sr. Mgr.	48,677	Regular	B.E. (Civil) M. Tech. (25 Years)	22.03.79	47	Deputy Director, CWC.
Dubedi, B.D. Engineer,	45,610	On deputation from UPSEB	Dip. in Mech. Engg. (12 Years)	10.12.76	36	Jr. Engineer, UPSEB.
Gangopadhya, A.K. Manager	36,577	Regular	B.E. (Civil) (18 Years)	10.09.81	38	Executive Engineer (PWD), Govt. of Goa, Daman & Diu. (Panaji)
Goela, Y.S. Engineer	49,379	Regular	B.Sc Engg. (Elect) (9 Years)	01.01.77	35	—
Gothra, Major G.S. Manager	57,822	Regular	Degree in Engg. (Civil), LL.B., (20 Years)	12.03.79	47	Major in Indian Army
Govindarajalu, V. Engineer	45,578	Regular	B.Tech. (Mech) (3 Years)	12.06.80	29	—
Goel, J.M. Manager	36,888	Regular	B.A. SAS (Rlys) (32 Years)	15.04.78	52	Accounts Officer, NMDC Ltd.
Goyal, P.P. Admn. Officer	36,308	Regular	Matric (30 Years)	23.05.80	46	P.A. in CW & PC
Ghosh, L.N. Manager	36,212	Regular	M.B.A. (Finance) Dip. in Fin. Control, P.G. Dip. in Pers Mgt., Dip. in Data Processing (28 Years)	01.10.81	39	Dy. Acctts. Manager, M.M.T.C. Ltd.
Ghosh, M.K. Sr. Manager,	47,395	Regular	B.E. (Civil) (23 Years)	23.02.79	45	Executive Engr., Border Roads Organisation.
Gulati, Major V. Manager	44,690	Regular	AMIE (Mech) (17 Years)	01.03.80	37	Major in Indian Army



# National Hydroelectric Power Corporation Ltd.



1	2	3	4	5	6	7
Gupta, A.K. Asstt. Manager	40,776	Regular	B.E. (Hons) (Mech.) (7 Years)	24.11.77	28	Apprentice (Ind. Engg.) Hindustan-Brown Boveri Ltd.
Gupta, Dr. G.C. Sr. Medical Officer	59,756	Regular	M.B.B.S. (14 Years)	24.04.81	37	Major in Indian Army
Gupta, Dr. J.P. Asstt. Manager	37,215	Regular	M.A. Ph.D. Prabhakar (Hons. in Hindi) (31 Years)	15.11.78(AN)	51	Asstt. Education Officer, Central Hindi Directorate
Gupta, M.L. Manager	46,505	Regular	B.Sc. Engg. (Mech.) (17 Years)	29.04.80	39	Dy. Manager, BHEL
Gupta, R.K. Asstt. Manager	49,711	Regular	B.E. (Civil) (4 Years)	22.05.79	27	—
Gupta V.K. Manager	41,530	Regular	B.E. (Civil) Hons. (18 Years)	10.05.78	40	Dy. Director, Central Hydroelectric Projects Control Board.
Hashia, M.L. Manager	39,763	Regular	B.E. (Civil) (24 Years)	23.07.81	46	Executive Engineer, PWD, J&K.
Jaggi, A.L. Chief Project Manager	56,600	Regular	B.Sc. Engg. (Elect) (22 Years)	20.01.78	44	Supdtg. Engineer, Baira Siul HE Project, Govt. of India.
Jain, A.K. Sr. Manager	48,169	Regular	B.Com., ACA (15 Years)	28.11.78	38	Dy. Accounts Manager, IFFCO, New Delhi.
Jain, P.P. Chief (P&A)	52,587	Regular	M.A., LL.B., Diploma in Labour Laws, Labour Welfare & Personnel Management (31 Years)	26.10.78	54	Manager (Personnel) BHEL
Jain, T.C. O.S.D.	59,499	Regular	B.Sc., Engg. (Elect.) (28 Years)	15.07.77	51	Deputy Director CEA
Jir, P.N. SPS.	37,682	Regular	B.A. Diploma in Industrial Relations & Personnel Management (28 Years)	19.02.77	50	P.S. Railway Board
Johri, S.K. Dy. Manager	40,400	Regular	M.A. M.S.W. (19 Years)	20.03.78	43	Asstt. Personnel Officer, Hindustan Steel Works Corporation Ltd.
Joshi, K.B. Accounts Officer	60,789	Regular	M.A. (Econ.) (18 Years)	16.10.78	39	J.A.O. C.C.A./CBEL, New Delhi.
Joshi, V.K. Chief Engineer	53,710	On deputation from Dep'tt. of Irrigation, Govt. of U.P.	B.E. (Civil) (31 Years)	31.03.79	53	Director, CWC.
Kachroo, M.L. Dy. Manager	36,600	On deputation from PWD, J&K	B.Sc. Engg (Civil) (18 Years)	15.05.78	44	Executive Engineer Salal Project.
Kalsi, J.S. Dy. Manager	40,861	Regular	Diploma in Civil Engg. B.A. (27 Years)	26.12.78	50	Executive Engineers, H.P.S.E.B.
Kanwar, B.S. Manager	47,395	On deputation from H.S.E.B.	B.Sc. Engg. (Elect) (21 Years)	26.06.81	42	Executive Engineer, H.S.E.B.
Kanwar, R.S. Dy. Manager	49,590	On deputation from H.P.S.E.B.	B.Sc. Engg. (Elect) P.G. Dip. in Water Resources (15 Years)	12.06.78	39	Assistant Engineer, H.P.S.E.B.



# National Hydroelectric Power Corporation Ltd.



1	2	3	4	5	6	7.
Kapil, A.K. Asstt. Manager	38,040	Regular	A.M.I.E. (C) Dip. in Civil Engg. (22 Years)	10.07.81	41	Asstt. Manager, H.P.S.E.B.
Kapur, V.K. Dy. Manager	43,192	Regular	M.Tech. (C) (13 Years)	07.11.78	38	Asstt. Executive Engineer, Hindustan Prefab Ltd.
Kapur, S.K. Asstt. Manager.	62,052	Regular	B.A., L.L.M. (19 Years)	19.02.77	44	Assistant, Ministry of Railways.
Kaul, B.N. Asstt. Manager.	39,288	Regular	B.A., SAS (34 Years)	02.09.81	53	A.O., Office of A.G. (J&K).
Khanna, M.N., Dy. Manager.	40,641	Regular	B.E. (Mech) (15 Years)	27.03.79	37	AEE., Border Roads Development Board.
Khar, P.N., Chief Engineer	58,638	Regular	B.E. (Civil), M.E. M.I.E., M.I.A.H.R. (28 Years)	15.05.78	48	Supdtg. Engineer, Salal H.E. Project, Govt. of India.
Khungar, J.N., Manager	40,547	On deputation from Irrg. Deptt. Govt. of Punjab	B.Sc. Engg (C) (23 Years)	06.08.77	44	Executive Engineer, Beas Project.
Kochar, J.N., Manager	36,922	On deputation from Office of D.G. Border Roads.	B.A. (24 Years)	10.08.81	48	Civilian Officer Gr. I Office of D.G. Border Roads.
Krishan Mohan, Manager	42,374	Regular	M.A. (Labour & Social Welfare) (20 Years)	04.06.78	46	Deputy Manager (Pers.) Bharat Coking Coal Ltd.
Kumar, B, Manager	38,977	Regular	M.A. (LSW), B.L. (18 Years)	12.07.78	45	Personnel Officer, Bokaro Steel Ltd.
Lal, R.P. Asstt. Manager	36,296	Regular	B.Sc. (Elect) (16 Years)	30.11.81	38	Asstt. Executive Engineer, UPSEB.
Madan, R.K. Sr. Manager	52,248	Regular	B.Sc.Engg. (Elect) (20 Years)	12.12.79	42	Chief Engineer, M/s R.S. Steel Works, Bareilly.
Madan Lal, Manager	66,227	On deputation from UPSEB	B.E. (Elect.) (14 Years)	06.09.77	38	Sr. Asstt. Engineer, U.P.S.E.B.
Mahajan, B.R. Asstt. Manager	51,922	Regular	B.A. (15 Years)	11.7.78	49	Section Officer, AG's Office, Jaipur.
Maini, S.S., Manager	48,734	On deputation from Punjab Irrigation Deptt.	A.M.I.E., Dip. in Civil Engg. (27 Years)	04.02.80	56	Sr. Design Engineer, Punjab Irrigation Deptt.
Malhotra, B.L., Asstt. Manager	36,307	Regular	Dip. in Civil Engg. (34 Years)	14.09.79	55	S.D.O. BSL Project, Sundar Nagar.
Malhotra, G.G., Manager	41,685	Regular	B.A., LL.B. Dip. in Admn. Law (20 Years)	15.05.78	40	Asstt. Legal Adviser, O.N.G.C.
Mathur, G.N. Dy. Manager	51,995	Regular	A.M.I.E. (Elect.) (17 Years)	07.04.78	41	Asstt. Engineer, R.S.E.B.
Malhotra, S.P., Asstt. Manager	41,373	Regular	B.A.(Hons) (28 Years)	30.04.77	48	P.S., Ministry of Energy.
Mandappa, B.M., Chief Engineer	58,228	Regular	B.E. (Civil Engg), M.I. Struct. E (London) F.I.E. (27 Years)	01.10.81	51	Superintendent (Designs) SAIL (Bokaro Steel Plant)
Mehta, O.P. General Manager	62,645	Regular	B.Sc. Engg (Civil) (34 Years)	01.01.80	55	Chief Engineer, Chukha Project Authority, Bhutan.



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1	2	3	4	5	6	7
Mithal, Dr. K.K., Sr. Medical Officer	38,176	Regular	M.B.B.S. (6 Years)	17.02.78	39	—
Mittal, S.K. Sr. Manager.	49,373	Regular	B.E. (Elect.) (24 Years)	20.05.78	48	Executive Engineer, UPSEB
Mishra, H.S. Dy. Manager.	37,910	Regular	A.I.C.W.A., S.A.S., (26 Years)	21.12.79	55	R.A.O. Office of AG. Haryana.
Mishra, S.B.C., Dy. Manager.	46,499	Regular	B.E. (Elec.) (11 Years)	04.05.77	37	Asstt. Engineer, UPSEB
Mukherjee, K. Sr. Manager	60,006	Regular	FICWA (27 Years)	25.01.79	48	Asstt. Finance Manager, FCI (P&D Division), Sindri.
Murari Lal Manager	42,150	Regular	B.E. (Civil) (21 Years)	22.10.81	43	Executive Engineer, IDPL.
Nand Gopal, Manager	43,430	Regular	B.E. (Civil) M.E. (Structures) (17 Years)	03.04.80	42	Deputy Manager, TSP Limited, Tungabhadra Dam.
Narang, S.M. Deputy Manager	37,480	Regular	B.Sc. Engg (Civil) (17 Years)	14.02.79	40	Asstt. Director, CWC.
Narayanan, Brig. P.N.S. General Manager	65,014	Regular	Degree in Engg. (Civil) MIE (31 Years)	30.03.81	52	Chief Engineer, Army Headquarters, New Delhi.
Ojha, R.N. Asstt. Manager.	46,258	Regular	B.A. (17 Years)	13.07.78	40	Welfare Officer, Britannia Engg. Works. Patna.
Paras, B.S. P.S. Gr. II	37,068	Regular	B.A., LL.B., DPM (19 Years)	24.12.76	43	Stenographer, Ministry of Railways.
Pirzada Ghulam Nabi Chairman & Managing Director	45,160	Govt. appointment	M.Sc. in Civil Engg. Columbia University (USA) (34 Years)	07.07.82	57	Officer on Special Duty, PWD, J&K.
Prabhakar, R.D. Deputy Manager	46,396	On deputation from PSEB	M.Sc. (Elec.) (13 Years)	31.03.79	36	Assistant Executive Engineer, PSEB.
Prasada Rao, P.D. Sr. Manager	37,281	Regular	B.E. (Civil) (20 Years)	23.06.80	44	Deputy Director, CWC.
Pritpal Singh, Kr. Chief Engineer	49,239	Regular	B.E. (Civil) AMIE (28 Years)	01.12.77	50	Superintending Engineer, PWD, J&K
Prasad, G.M., Engineer	37,481	On deputation from BSEB	B.Sc. Engg. (Civil) (10 Years)	07.09.79	32	Asstt. Engineer, BSEB.
Prasad, V.B. Manager	41,640	On deputation from UPSEB	B.Tech. (Elec.) (17 Years)	14.04.80	40	Executive Engineer, UPSEB
Raina, A.H. Chief Engineer	55,124	Regular	B.E. (Elect.) (23 Years)	15.05.78	53	Supdtg. Engineer, Salal HE Project, Govt. of India.
Raina, Y.K. Manager.	36,712	On deputation from PWD, J&K	B.E. (Civil) (22 Years)	01.01.82	45	Executive Engineer, J&K PWD, (R&B)
Rajagopalan, R. General Manager (F&A)	65,027	Regular	B.Sc. B.L. (29 Years)	19.11.78	55	Accountant General, J&K.
Rajpal, P.R. Engineer	48,631	Regular	B.E. (Civil) (10 Years)	01.01.77	34	Asstt. Engineer, Ministry of Energy.
Ramamurthi, A.R. Manager	42,688	Regular	AICWA, A.C.S. (30 Years)	11.08.78	47	Senior Asstt. Manager, FCI.



# National Hydroelectric Power Corporation Ltd.



1	2	3	4	5	6	7
Raman, N.V. Company Secretary	49,116	Regular	B.A. LL.B. G.D.C.S. ACS, ICWA (Inter) Dip. in Labour Laws (27 Years)	15.12.78	47	Dy. Company Secretary, Engineers India Ltd.
Ramani, V., Asstt. Manager.	36,226	Regular	B.Sc. SAS, ICWA (23 Years)	29.12.81	55	Accounts Officer, BALCO Limited, Korba.
Ramtani, I.L. Manager.	37,671	Regular	B.A. LL.B. P.G. Dip in Lab. Laws Lab. Welf. & Pers. Mgt. (24 Years)	02.11.81	42	Sr. Adm. Officer (Pers) Hindustan Zinc Ltd.
Rao, P.L. Manager.	44,936	Regular	AMIE. (24 Years)	12.03.81	45	Divisional Engineer, Rehabilitation Reclamation Organisation, Deptt. of Rehabilitation, Govt. of India
Rastogi, V.P. Manager.	36,958	Regular	AMIE, Dip. in Ind. Admn. (26 Years)	09.06.81	44	Dy. Sales Manager, Triveni Structurals Ltd.
Robertson, J.H. Deputy Manager.	41,935	Regular	B.E. (Mech.) (14 Years)	11.10.78	38	AEE, Tamil Nadu Electricity Board.
Sachdeva, H.S. Dy. Manager.	37,761	Regular	B.A. (33 Years)	19.09.79	52	PS to Minister of State for Energy.
Sahoo, Dr. S., Sr. Med. Officer.	41,983	Regular	M.B.B.S. (9 Years)	06.02.78	37	Asstt. Surgeon Gr. I, Health Service, Govt. of Manipur.
Sarda, B.K. Engineer.	43,851	Regular	B.E. (Civil) (4 Years)	10.06.80	26	J.E., Public Health Engg. Department, Rajasthan.
Sehgal, S.C., Asstt. Manager.	42,693	Regular	B.Sc. (Civil Engg.) (13 Years)	07.11.80	36	Asstt. Engineer, Chukha Hydel Project.
Sen, S.P., Asstt. Manager.	53,529	Regular	M.E. (Civil) (11 Years)	11.8.80	35	Asstt. Engr. I & W Department, West Bengal
Sharma, B.K. Manager.	36,330	Regular	Master of Tech (Civil Engg.) (20 Years)	18.07.81	43	Research Engr., Institute of Rock Mechanics, Univ. of Karlsruhe (W. Germany).
Sharma, J.K. Asstt. Manager	37,120	Regular	B.E. (Civil) (4 Years)	23.08.79	25	—
Sharma, K.S. Manager	38,105	On deputation from Punjab, PWD, (IB)	B.Sc. (Engg) Hons. (Civil) (17 Years)	23.05.77	35	S.D.O., P.W.D. Punjab (IB)
Sharma, O.P., Senior Manager	44,721	Regular	B.Sc. Engg. (Civil) (22 Years)	15.05.78	46	Executive Engineer, Salal H.E. Project. Govt. of India.
Sharma, V.B., Asstt. Manager	38,806	Regular	B.Sc. Engg (Civil) (14 Years)	23.09.81	40	Service Engineer, HCC Ltd.
Sharma, V.K. Asstt. Manager	51,826	Regular	B.Sc. Engg (Civil) (5 Years)	23.05.79	31	—
Sharma, V.K., Asstt. Manager	40,097	On deputation from HPSEB	B.Sc. Engg (Civil) (10 Years)	27.04.81	35	Asstt. Executive Engineer, HPSEB.
Sharma, Y.K. Asstt. Manager	36,278	Regular	B.Tech. (Mech. Engg) (12 Years)	08.12.80	34	Asstt. Engineer, UP State Agro Ind. Corpn. Limited.



# National Hydroelectric Power Corporation Ltd.



1	2	3	4	5	6	7
Sher, S.C. Asstt. Manager	40,191	Regular	B.E. (Elect.) M.Tech (4 Years)	22.05.79	29	—
Singh Joginder, Dy. Manager	36,362	Regular	MSW, LL.B (13 Years)	10.05.78	38	Personnel-cum-Labour Welfare Officer, Punjab Scooters Limited
Singh, Dr. Manihar, Sr. Medical Officer	39,886	On deputation from Manipur Health Services	MBBS (9 Years)	06.02.78	36	Asstt. Surgeon Gr. I, Health Service Govt. of Manipur
Singh, Parminder Deputy Manager	36,331	On deputation from Irrigation Deptt Govt of J&K	B.E (Civil) (15 Years)	15.05.78	38	Assistant Engineer Salal H.E. Project
Singh, Prem, Security Officer	38,919	On deputation from HP Police Service	F.A. (Lahore.) (34 Years)	01.06.80	56	DSP, HP Police Service
Singh, Maj. R.D.P. Manager	42,228	Regular	B.Sc. Engg. (Civil) (17 Years)	21.03.79	40	Major in Indian Army.
Sinha, A.S.C., Manager	37,372	Regular	B.Sc. (Prodn. Engg) M.S. (Mech. Engg) M.B.A. (15 Years)	30.06.81	36	Sr. Planning Engr. B.H.E.L.
Sinha B.S.P., Sr. Manager	49,677	On deputation from BHEL	B.A., LL.B. (21 Years)	03.06.81	44	Manager, B.H.E.L.
Subramani, C.G. Chief Project Mgr.	77,838	Regular	B.E. (Civil), M.I.E. (23 Years)	03.10.79	46	Executive Engineer, Border Roads Deptt.
Subramanian, K., Sr. Manager	58,703	Regular	B.A., B.L., A.I.C.W.A. (31 Years)	01.03.78	58	Asstt. Chief Accounts Officer, REC Ltd.
Subramanian, V. Director (F)	60,416	Regular (Govt. appointment)	B.Sc. (Hons), LL.B. (31 Years)	27.01.78	55	Accounts Member, Kerala State Elect. Board.
Suri, B.L., Manager	40,073	On deputation from PDD, J&K	B.Sc.Engg. (Elect.) P.G. Dip. in Business Management (24 Years)	11.07.84	48	S.E. Electrical, PDD, J&K
Tahilyani, T.C.A. Manager	36,701	Regular	M.Sc. Engg. (Elect.) (12 Years)	04.05.78	36	Asstt. Engineer, UPSEB.
Thakkar, P.J. Engineer	40,734	Regular	(B.E. (Elect.) (4 Years)	13.02.80	28	Jr. Engr., Gujarat Electricity Board.
Trikha, A.K. Engineer	44,690	Regular	B.E. (Civil) (7 Years)	03.12.80	30	Design Asstt., Salal Project.
Tyagi, G.D Chief Engineer	58,304	On deputation from UP Irrigation Deptt.	B.E. (Civil) (28 Years)	10.2.78	51	Executive Engineer, Irrigation Department, UP
Varatharajan, R. Manager	38,971	Regular	M.A. (English) M.A. (Economics) SAS (29 Years)	13.11.78	54	Revenue Audit Officer, AGCR.
Venkatachalam, K.R. Spl. Private Secretary	37,564	Regular	SSLC (27 Years)	01.08.78	50	SPA to Secretary (Power) Ministry of Energy.
Venkataramaiah, P. Sr. Manager	44,037	Regular	B.E. (Civil) (27 Years)	25.01.80	52	Superintending Engineer, Chukha Project Authority, Bhutan.
Venkatesha, C.R. Manager	39,147	Regular	B.E. (C) M.E. (Structures) (16 Years)	29.07.81	39	Scientist, Cement Research Institute of India.
Verma, D. Paul Manager	37,820	Regular	B.Sc. Engg (Civil) (18 Years)	09.08.76	42	SDO, Punjab, PWD (Irrigation).



# National Hydroelectric Power Corporation Ltd.



1	2	3	4	5	6	7
Verma, S. Manager	44,228	Regular	B.E. (Civil) (20 Years)	06.03.79	41	Major in Indian Army.
Viswanathan, N Sr. Manager	50,334	Regular	M.E. (Civil) (20 Years)	17.09.79	44	Assistant Chief Engineer, Triveni Structurals Limited.
Zutshi, K.L. Sr. Manager	43,705	Regular	B.E. (Civil) M. Tech. (22 Years)	15.05.78	46	Executive Engineer, Salal Hydroelectric Project, Government of India.
<b>(B) Particulars of employees employed for part of the financial year who were in receipt of not less than Rs.3,000 p.m.</b>						
Appaiah, P.K. Asstt. Mgr.	28,313	On deputation from Indian Army	B.Sc. (Civil) (8 Years)	12.11.82	42	Major in Indian Army.
Chhabra, C.P. Chief Engg.	45,154	On deputation from P.S.E.B.	B.E. (Elec. & Mech.) (31 Years)	08.08.83	54	Superintending Engineer, Bhakra Beas Management Board.
Chatrath, A.S. Executive Director	41,708	Regular	B.Sc. Engg. (Civil) (33 Years)	17.02.78	54	Superintending Engineer, Beas Sutlej Link Project.
Chatterjee, N.C. Manager.	23,598	Regular	B.E. Tech. (Mech.) (30 Years)	09.04.80	46	Sr. Supdt. (Mech.), Iron Ore Mining Company, Bangalore.
Dogra, K.D. Asstt. Mgr.	4,415	On deputation from HPSEB	B.Sc. Engg. (Elect.) (15 Years)	30.09.80	38	Asstt. Executive Engineer, HPSEB.
Kapoor, Gulgit Asstt. Manager	36,577	On deputation from PSEB	B.Sc. Engg. (Elect.) (12 Years)	18.04.83	33	A.E.E., PSEB
Kochar, B.S. Chairman & Managing Director	10,434	Govt. appointment	B.E. (Elect. & Mech.) (35 Years)	17.02.82	59	Chief Engineer, PSEB Member (Power), B.B.M.B.
Mohammad Atta, Manager	10,753	On deputation from PWD, J&K	B.E. (Civil) (24 Years)	04.01.84	49	Executive Engineer, PWD, J&K
Nagaraj, H.R. Chief Engineer	25,038	On deputation from NPCC	AMIE (Civil) (27 Years)	19.09.83	51	Zonal Manager, NPCC Ltd.
Raghavan, S. Manager	15,946	Regular	B.A., LL.B. PG Dip in Labour Laws. Lab. Welf. & Pers. Mgt. (24 Years)	27.11.81	45	Personnel Officer, BALCO Ltd.
Rajagopal, M.K. Engineer	9,513	On deputation from C.W.C.	L.C.E. (15 Years)	04.02.79	49	Extra Asstt. Director CWC
Saha, K.C. Engineer	9,104	On deputation from C.W.C.	B.E. (Civil) (13 Years)	01.02.79	40	A.E., CWC.
Sharma, V.K. General Manager	26,891	On deputation from B.S.E.B.	B.Sc. (Engg.) (Elect.) (35 Years)	06.12.79	54	General Manager-cum- Chief Engineer, BSEB.
Sharma, V.K. Dy. Manager	8,074	On deputation from HPSEB	B.E. (Mech.) (14 Years)	23.10.78	39	A.E., HPSEB.
Singh, Gurmukh Paul Dy. Manager	9,922	On deputation from Punjab Irrigation Deptt.	Dip. in Civil Engg. (36 Years)	24.11.78	58	Dy. Area Supdt. B.S.L. Project.
Singhal, M.K. Chief Engineer.	15,611	On deputation from U.P. Irrigation Deptt.	B.E. (Civil) M.E. (31 Years)	01.01.82	52	Suptg. Engr. Irrigation Deptt. UP.

- Notes: (1) None of the above employees is related to any of the Directors of the Corporation within the meaning of Section 6 of the Companies Act, 1956.  
(2) The terms and conditions of appointment are as determined by Government/Rules and Regulations of the Corporation in force from time to time as the case may be.  
(3) Designations indicated in the list denote the nature of duties performed by employees.  
(4) (a) The 'Remuneration' includes cost of hiring corporation-leased accommodation wherever applicable, employer's contribution to PF etc.  
(b) The Gratuity amount has not been taken into account as the same has been provided on the basis of Gratuity-cum-LIC Policy taken with Life Insurance Corporation of India.  
(c) In the case of employees posted abroad, the remuneration includes Foreign Allowance also.



## BALANCE SHEET AS AT 31ST MARCH, 1984

(Rs. in thousands)

Particulars	Schedule	31.3.1984	31.3.1983
<b>SOURCES OF FUNDS</b>			
1. Shareholders' Funds			
(a) Capital	'1'	1,65,60,63	1,29,82,13
(b) Share Money Deposit		54,83,40	18,57,96
(c) Reserves and Surplus	'2'	23,44,74	23,44,74
		2,43,88,77	1,71,84,83
2. Grants-in-aid	'3'	43,71	24,37
3. Loan Funds			
Unsecured Loans	'4'	1,37,14,64	1,49,87,86
<b>TOTAL</b>		<b>3,81,47,12</b>	<b>3,21,97,06</b>
<b>APPLICATION OF FUNDS</b>			
1. Fixed Assets	'5'		
Gross Block		2,65,52,00	1,59,05,95
Less: Depreciation		30,88,54	16,73,30
Net Block		2,34,63,46	1,42,32,65
2. Capital Work-in-progress	'6'	33,21,02	1,17,93,78
3. Current Assets, Loans & Advances	'7'		
(a) Inventories		23,66,49	8,61,82
(b) Cash & Bank Balances		48,89,17	27,57,55
(c) Sundry debtors		25,36,37	21,12,86
(d) Other Current Assets		96,07	69,42
(e) Loans and Advances		35,32,05	21,94,20
		1,34,20,15	79,95,85
Less: Current Liabilities and Provisions	'8'		
(a) Liabilities		43,16,86	34,38,00
(b) Provisions		—	—
<b>TOTAL</b>		<b>43,16,86</b>	<b>34,38,00</b>
<b>NET CURRENT ASSETS</b>		<b>91,03,29</b>	<b>45,57,85</b>
4. Miscellaneous Expenditure to the extent not written off or adjusted	'9'	32,01	36,22
5. Profit & Loss Account (Loss)		22,27,34	15,76,56
		<b>3,81,47,12</b>	<b>3,21,97,06</b>
Notes to the Accounts & Contingent Liabilities	'13'		
Additional Information under Part II of Schedule VI	'14'		
Schedules '1' to '14' and Accounting Policies form an integral Part of the Accounts.			

N.V. RAMAN  
Secretary

R. RAJAGOPALAN  
Director (Finance)

PIRZADA GHULAM NABI  
Chairman and Managing Director

As per our separate report attached  
For S.L. Khindaria & Co.  
Chartered Accountants

New Delhi.  
14th September, 1984

S.L. KHINDARIA  
Partner



**PROFIT AND LOSS ACCOUNT FOR THE YEAR ENDED 31.3.1984**

(Rs. in thousands)

Particulars	Schedule	31.3.1984	31.3.1983
<b>INCOME</b>			
1. Revenue from the Sale of Electric Power		25,20,68	24,36,26
2. Fee for Construction Management		1,41,27	—
3. Miscellaneous Income	'10'	5,74	3,15
<b>TOTAL INCOME</b>		<b>26,67,69</b>	<b>24,39,41</b>
<b>EXPENDITURE</b>			
4. Employees' Remuneration and Benefits	'11'	2,18,42	72,52
5. Generation, Transmission & Administration expenses	'12'	3,39,92	1,92,89
6. Excise duty on generation		1,58,95	1,38,93
7. Royalty charges on generation		1,31,05	1,22,81
8. Depreciation		11,91,07	4,22,25
9. Interest on Government loans		12,75,06	7,17,83
10. Preliminary Expenses written off		4,00	4,00
<b>TOTAL EXPENDITURE</b>		<b>33,18,47</b>	<b>16,71,23</b>
11. Profit/(Loss) before income-tax and Statutory Appropriations		(6,50,78)	7,68,18
12. Investment Allowance Reserve		—	23,44,74
13. Provision for Taxation		—	—
14. Loss after Taxes and Statutory Appropriations		6,50,78	15,76,56
15. Add: Loss brought forward from previous year		15,76,56	—
16. Loss carried to Balance Sheet		22,27,34	15,76,56

N.V. RAMAN  
Secretary

R. RAJAGOPALAN  
Director (Finance)

PIRZADA GHULAM NABI  
Chairman and Managing Director

As per our separate report attached  
For S.L. Khindaria & Co.  
Chartered Accountants

New Delhi.  
14th September, 1984

S.L. KHINDARIA  
Partner



# National Hydroelectric Power Corporation Ltd.



## SHARE CAPITAL

### SCHEDULE—1 (Rs. in thousands)

Particulars	31.3.1984	31.3.1983
<b>AUTHORISED CAPITAL</b>		
40,00,000 Equity Shares of Rs. 1,000 each	4,00,00,00	4,00,00,00
<b>ISSUED, SUBSCRIBED AND PAID UP CAPITAL</b>		
16,56,063 Equity Shares of Rs. 1,000 each fully paid (out of this 6,29,529 Shares have been allotted for consideration other than cash and one Share has been allotted for part consideration other than cash)	1,65,60,63	1,29,82,13
	<u>1,65,60,63</u>	<u>1,29,82,13</u>

## RESERVES AND SURPLUS

### SCHEDULE—2 (Rs. in thousands)

Particulars	31.3.1984	31.3.1983
<b>CAPITAL RESERVES</b>		
1. Investment Allowance Reserve	23,44,74	23,44,74
<b>TOTAL</b>	<u>23,44,74</u>	<u>23,44,74</u>

## GRANTS-IN-AID

### SCHEDULE—3 (Rs. in thousands)

Particulars	31.3.1984	31.3.1983
<b>GRANTS-IN-AID FOR INVESTIGATION OF HYDROELECTRIC PROJECTS</b>		
1. Koel Karo	5,00	5,00
2. Dulhasti	5,00	5,00
3. Chamera	3,36,00	2,79,19
4. Dhaleshwari	1,66,84	94,47
5. Dhauliganga	95,00	30,00
6. Tanakpur	37,16	31,34
	<u>6,45,00</u>	<u>4,45,00</u>
<b>Less: Expenditure</b>		
A. Chamera	2,99,59	2,56,94
B. Dhaleshwari	1,35,82	92,35
C. Dhauliganga	1,00,19	37,52
D. Tanakpur	65,69	33,82
	<u>6,01,29</u>	<u>4,20,63</u>
	<u>43,71</u>	<u>24,37</u>



# National Hydroelectric Power Corporation Ltd.



## UNSECURED LOANS

### SCHEDULE—4 (Rs. in thousands)

Particulars	31.3.1984	31.3.1983
1. Loans from Government of India	1,37,14,64	1,45,48,19
2. Interest accrued and due on loans		4,39,67
	<u>1,37,14,64</u>	<u>1,49,87,86</u>

## FIXED ASSETS

### SCHEDULE—5 (Rs. in thousands)

Particulars	Gross Block as at 1.4.1983	Additions/ Adjust- ments	Deduc- tions/ Sales/ Transfers	Gross Block as at 31.3.1984	Total deprecia- tion as at 31.3.1984	Net Block as at 31.3.1984	Net Block 31.3.1983
1.	2.	3.	4.	5.	6.	7.	8.
Land (Free hold)	2,16,71	23,61	1,05	2,39,27	—	2,39,27	2,16,71
Land (Lease hold)	—	4,86	—	4,86	49	4,37	—
Residential Buildings	4,58,76	2,30,87	1,10	6,88,53	2,84,64	4,03,89	2,86,81
Non-Residential Buildings	16,19,92	96,94	72,53	16,44,33	1,81,36	14,62,97	14,60,78
Road & Bridges	7,67,81	77,63	24	8,45,20	1,27,28	7,17,92	6,61,35
Plant & Machinery	36,74,10	15,84,46	55,06	52,03,50	12,45,12	39,58,38	27,83,74
Hydraulic Works including Dams, Tunnels, Channels & Penstocks	80,54,48	85,19,18	9,45	1,65,64,21	9,94,73	1,55,69,48	79,22,38
Vehicles & other Transport	2,59,97	1,43,39	69,89	3,33,47	99,42	2,34,05	1,53,53
Office Furniture & Fixture	60,61	20,09	2,46	78,24	9,01	69,23	54,84
Office Equipment and other Appliances	45,27	18,67	3,94	60,00	11,33	48,67	37,16
Transmission Lines	6,28,51	1,17,13	—	7,45,64	1,00,71	6,44,93	5,67,17
Communication Equipment	13,50	2,71	1,18	15,03	3,44	11,59	10,84
Miscellaneous Equipment	20,88	6,19	18,75	8,32	61	7,71	16,96
Other Assets	85,43	35,21	42	1,20,22	30,40	89,82	60,38
Assets in Transit	—	1,18	—	1,18	—	1,18	—
	<u>1,59,05,95</u>	<u>1,08,82,12</u>	<u>2,36,07</u>	<u>2,65,52,00</u>	<u>30,88,54</u>	<u>2,34,63,46</u>	<u>142,32,65</u>
Previous year's Figures	30,19,72	1,30,61,88	1,75,65	1,59,05,95	16,73,30	1,42,32,65	



# National Hydroelectric Power Corporation Ltd.



## CAPITAL WORK-IN-PROGRESS

## SCHEDULE—6 (Rs. in thousands)

Particulars	31.3.1984	31.3.1983
Survey, Investigation, Consultancy and other Preliminary Expenses	80,10	49,20
Building & Civil Engineering Works	4,10,80	6,17,90
Communications	3,43,69	36,60
Hydraulic Works including Barrages, Dams, Tunnels and Power Channels	6,18,43	45,31,88
Penstock	30,47	7,75,12
Plant & Machinery in Generating Station	27,33	10,05,99
Electrical Installations	65,45	7,75
Ancillary Works	75,25	4,14,12
Trunk Transmission Lines	4,05,35	41,60
Incidental Expenditure during Construction (as per statement attached)		
Balance brought forward from last year	43,13,62	57,10,67
Less: Prior Period adjustments	10,80,93	7,67,06
	<u>32,32,69</u>	<u>49,43,61</u>
Add: Additions for the year	9,70,66	16,49,71
	42,03,35	65,93,32
Less: Capitalised during the year	29,39,20	22,79,70
	<u>12,64,15</u>	<u>43,13,62</u>
	<u>33,21,02</u>	<u>1,17,93,78</u>



# National Hydroelectric Power Corporation Ltd.



## STATEMENT OF INCIDENTAL EXPENDITURE DURING CONSTRUCTION FOR THE YEAR ENDED 31.3.1984

(Rs. in thousands)

Particulars	31.3.1984	31.3.1983
<b>1. EMPLOYEES' REMUNERATION AND BENEFITS</b>		
Salaries, Wages, Allowances & Benefits	3,30,80	3,43,31
Foreign Service Contribution	4,43	8,37
Contribution to Provident Fund	22,43	19,75
Contribution to Gratuity Fund	5,61	21,90
Staff Welfare	31,30	25,39
	<u>3,94,57</u>	<u>4,18,72</u>
<b>2. REPAIRS &amp; MAINTENANCE</b>		
Buildings	21,31	32,43
Roads and Bridges	19,98	52,00
Machinery and Construction Equipment	58,73	1,02,86
Others	26,00	19,89
	<u>1,26,02</u>	<u>2,07,18</u>
3. Travelling and Conveyance	58,51	46,28
4. Expenses on Staff Cars & Inspection Vehicles	45,52	47,91
5. Transport Expenses	1,54	8,53
6. Rent	51,62	55,68
7. Rent for Residential Accommodation	13,96	9,81
8. Rates and Taxes	1,38	42
9. Insurance	37,30	2,52
10. Electricity Charges	4,72	6,89
11. Water Charges	28	30
12. Telephone, Telex & Postage	18,00	15,44
13. Advertisement & Publicity	21,46	21,27
14. Design and Consultation	15,49	8,70
15. Entertainment	1,12	1,15
16. Printing & Stationery	15,52	22,65
17. Training	3,68	99
<b>18. PAYMENT TO AUDITORS</b>		
a) Audit fee (includes Rs. 7500/- of 1982-83)	53	50
b) For Taxation matters	6	—
c) Audit Expenses (prior period)	1,26	1,09
19. Interest on Government loans	—	7,06,97
20. Bank Charges and Interest	1,28	69
21. Transfer of Technology	15,97	—
22. Loss on Materials/ Assets Written off	40	2,23
23. Foreign Consultancy Charges	2,24,97	—
24. Depreciation	2,13,74	1,37,12
25. Other Expenses	36,32	37,26
	<u>13,05,22</u>	<u>17,60,30</u>



# National Hydroelectric Power Corporation Ltd.



(Rs. in thousands)

Particulars	31.3.1984	31.3.1983
<b>LESS: RECEIPTS AND RECOVERIES</b>		
1. Sale of Scrap Material	62	7,82
2. Electricity Charges	20	23
3. Cost of Tender Forms	1,44	93
4. Hire Charges of Plant & Machinery	3,99	2,35
5. Water Charges	69	81
6. Rent	60	74
7. Interest :		
Term Deposits & Savings Bank	66,21	43,83
Loans and Advances	2,68	1,58
Miscellaneous Receipts & Recoveries	37,81	24,91
	1,14,24	83,20
Net Expenditure	11,90,98	16,77,10
<b>LESS</b>		
1. Design Charges Allocated to Capital Work-in-Progress	62,72	51,43
2. I.E.D.C. Allocated to Assets	18,19	—
	80,91	51,43
	11,10,07	16,25,67
Add/(Less) Prior Period Adjustments (Net)	(65)	1,80,52
	11,09,42	18,06,19

**NOTE:**

1. a) The above expenditure includes the following amounts paid to Directors:

	Rs.	Rs.
i) Salaries and Allowances	1,06,743	1,34,331
ii) Contribution to Provident Fund	9,267	5,396
iii) Rent for residential accommodation	25,617	16,500
iv) Medical reimbursement	14,735	3,984
v) Travelling expenses	2,22,857	1,13,832
vi) Leave Travel Concession	7,792	8,273
vii) Foreign Service Contribution	—	6,600
viii) Transfer Travelling Expenses	—	1,746

b) Whole-time Directors were also allowed the use of company's car for official journeys and for private journeys up to 500 km on payment of Rs.100 p.m. up to 30.11.1983 and Rs.150 p.m. w.e.f. 1.12.1983 in terms of Government sanction. Perquisite value of staff car, if available for unrestricted use, would have worked out to Rs.9,400/- during 1983-84 (Previous year Rs. 11,482/-).

2. The above does not include Rs. 24.73 lakhs (Previous year Rs.67.98 lakhs excluding loss of ACSR Conductor) on account of shortages/losses of material, which are under investigation. Pending finalisation of the investigation, the amount has been shown under Capital Work-in-Progress and Current Assets.



# National Hydroelectric Power Corporation Ltd.



## STATEMENT OF ALLOCATION OF INCIDENTAL EXPENDITURE DURING CONSTRUCTION

(Rs. in thousands)

Particulars	31.3.1984	31.3.1983
Net Expenditure as per Statement of Incidental Expenditure during the year	11,09,42	18,06,19
<b>ALLOCATION TO:</b>		
<b>A. Transmission Construction Units</b>		
(Deposit Works)		
1. Gangtok, Melli, Kalimpong }		
2. Gangtok-Dikchu	63	10
3. Leimatak-Jiribam	19	1,07
4. Ramnagar-Gandak	—	1
5. Singrauli-Kanpur	9	1,38
6. Neepco	6	—
	97	2,56
<b>B. Projects on Agency Basis</b>		
1. Salal Project	95,63	96,49
2. Devighat Project	12,24	21,06
	1,07,87	1,17,55
<b>C. Investigation Projects</b>		
1. Chamera Project	76	5,60
2. Dhaleshwari Project	77	4,13
3. Dhauliganga Project	1,11	2,07
4. Tanakpur Project	56	66
5. Konkan Project	77	2,04
6. Rangit Project	—	1
	3,97	14,51

*Contd.*



# National Hydroelectric Power Corporation Ltd.



(Rs. in thousands)

Particulars	31.3.1984	31.3.1983
<b>D. Own Projects Under Construction</b>		
<b>1. Baira Siul Project</b>		
a) Direct Expenditure	95,02	2,34,24
b) Corporate Office Share	7,18	11,33
	<u>1,02,20</u>	<u>2,45,57</u>
<b>2. Loktak Project</b>		
a) Direct Expenditure	3,22,05	11,98,23
b) Corporate Office Share	13,72	37,19
	<u>3,35,77</u>	<u>12,35,42</u>
<b>3. Koel Karo Project</b>		
a) Direct Expenditure	46,34	52,18
b) Corporate Office Share	1,56	1,48
	<u>47,90</u>	<u>53,66</u>
<b>4. Dulhasti Project</b>		
a) Direct Expenditure	81,62	48,69
b) Corporate Office Share	15,58	2,05
	<u>97,20</u>	<u>50,74</u>
<b>5. Chukha Transmission Construction Unit</b>		
a) Direct Expenditure	79,05	36,36
b) Corporate Office Share	59,02	27,96
	<u>1,38,07</u>	<u>64,32</u>
<b>6. Chamera HE Project</b>		
a) Direct Expenditure	2,49,14	—
b) Corporate Office Share	2,75	—
	<u>2,51,89</u>	<u>—</u>
<b>7. Jeypore-Talchar Transmission Construction Unit</b>		
a) Direct Expenditure	60	—
b) Corporate Office Share	1	—
	<u>61</u>	<u>—</u>
<b>E. Projects Under Operation</b>		
Baira Siul Project	21,52	21,86
Loktak Project	1,45	—
	<u>22,97</u>	<u>21,86</u>
	<u>11,09,42</u>	<u>18,06,19</u>



# National Hydroelectric Power Corporation Ltd.



## CURRENT ASSETS, LOANS AND ADVANCES

### SCHEDULE—7 (Rs. in thousands)

Particulars	31.3.1984	31.3.1983
<b>1. INVENTORIES</b>		
Stores & Spare Parts (at estimated cost)	23,66,49	8,61,82
<b>2. CASH &amp; BANK BALANCES</b>		
i) Cash, Imprest, Postal Orders and Postal Stamps	21,59	26,02
ii) <b>Balances with Scheduled Banks</b>		
Savings Bank Account	48,06,53	21,45,95
Short Term Deposits	—	5,50,00
iii) <b>Balances with Non-scheduled Banks</b>		
Maximum balance during the year		
	1983-84	1982-83
<b>Current Accounts</b>		
Nepal Rashtra Bank, Kathmandu	48,99	74,33
Nepal Bank Ltd., Trishuli	53,62	42,46
		7,43
		53,62
		29,57
		6,01
<b>3. SUNDRY DEBTORS</b>		
i) Debts outstanding for a period exceeding six months (considered good)	18,05,19	14,96,42
ii) Other debts less than six months (considered good)	7,31,18	6,16,44
	25,36,37	21,12,86
<b>4. OTHER CURRENT ASSETS</b>		
i) Interest accrued on Deposits	30,06	20,01
ii) Workshop & General suspense	66,01	49,41
<b>5. LOANS &amp; ADVANCES</b>		
Advances recoverable in cash or kind or for value to be received		
Secured (considered good)	—	2,58
Unsecured (considered good)	34,88,45	21,58,73
<b>LOANS</b>		
To Employees (Secured)	42,40	30,92
Balance with Customs and Port Trust Authority	1,20	1,97
	1,34,20,15	79,95,85

#### NOTE:

- Advances due from Directors Rs. 548/- [maximum amount due at any time during the year amounts to Rs. 1,64, 077/- (previous year Rs. 4,068/-).]
- Advances due by Companies in which any Director of the Corporation is a Director or Member amounts to Rs. 58.89 lakhs (previous year Rs. 23.10 lakhs).



# National Hydroelectric Power Corporation Ltd.



## CURRENT LIABILITIES AND PROVISIONS

## SCHEDULE—8

(Rs. in thousands)

Particulars	31.3.1984	31.3.1983
<b>LIABILITIES</b>		
1. Sundry Creditors	5,81,68	6,77,94
2. Unspent Amount of Deposit/ Agency Works	1,60,24	2,49,63
3. Deposits Retention Money from Contractors and Others	2,85,60	86,57
4. Other Liabilities	6,05,63	4,98,74
5. Interest Accrued but not due on Loans from the Government of India	4,44,14	4,83,64
6. Liability for Cheques Issued	22,39,57	14,41,48
<b>TOTAL</b>	<b>43,16,86</b>	<b>34,38,00</b>

## DETAILS OF DEPOSIT WORKS AND PROJECTS ON AGENCY BASIS

## ANNEXURE TO SCHEDULE-8

(Rs. in thousands)

Sl. No.	Particulars	Amount of deposit up to 31.3.1984	Expenditure up to 31.3.1983	Expenditure during the year	Share of Corporate Office Expr.	Total Expr. up to 31.3.1984	Unspent amount
1.	2.	3.	4.	5.	6.	7.	8.

### A. DEPOSIT WORKS

#### TRANSMISSION CONSTRUCTION UNIT

1. Gangtok to Melli-Kalimpong	4,24,13	3,86,49	31,34	63	4,18,46	5,67
2. Gangtok to Dikchu						
3. Liematak-Jiribam	4,12,04	4,10,26	9,39	19	4,19,84	—7,80*
4. Ramnagar-Gandak	1,77,30	1,57,99	7	—	1,58,06	19,24
5. Neepco	4,00	—	3,05	6	3,11	89

### B. PROJECTS ON AGENCY BASIS

1. Salal Project	2,16,89,49	1,63,22,79	52,11,25	95,63	2,16,29,67	59,82
2. Devighat Project	39,54,02	31,88,69	6,78,46	12,25	38,79,40	74,62

NOTE: Expenditure on Transmission Construction Units and Projects on agency basis represents cash expenditure only and does not include accrued expenditure. Expenditure, however, includes advances to staff, advances to suppliers, contractors, deposits and unconsumed stock etc.

\* Represents amounts recoverable from State Government.



# National Hydroelectric Power Corporation Ltd.



## MISCELLANEOUS EXPENDITURE

### SCHEDULE—9 (Rs. in thousands)

Particulars	31.3.1984	31.3.1983
<b>MISCELLANEOUS EXPENDITURE TO THE EXTENT NOT WRITTEN OFF OR ADJUSTED</b>		
1. Preliminary Expenses	32,01	36,01
2. Deferred Revenue Expenditure	—	21
	32,01	36,22

## MISCELLANEOUS INCOME

### SCHEDULE—10 (Rs. in thousands)

Particulars	31.3.1984	31.3.1983
1. Hire Charges of Vehicles and Plant and Machinery	—	43
2. Other Miscellaneous Receipts and Recoveries	1,56	2,72
3. Electricity Charges	4,18	—
TOTAL	5,74	3,15

## EMPLOYEES' REMUNERATION AND BENEFITS

### SCHEDULE—11 (Rs. in thousands)

Particulars	31.3.1984	31.3.1983
a) Salaries, Wages and Allowances	1,76,90	55,94
b) Company's Contribution to Provident Fund	8,35	4,84
c) Contribution to Gratuity Fund	2,34	—
d) Staff Welfare Expenses	30,83	11,74
TOTAL	2,18,42	72,52



# National Hydroelectric Power Corporation Ltd.



## GENERATION, TRANSMISSION AND ADMINISTRATION EXPENSES

## SCHEDULE—12

(Rs. in thousands)

Particulars	31.3.1984	31.3.1983
<b>GENERATION &amp; TRANSMISSION EXPENSES</b>		
1. Consumption of Stores and Spares	31,56	4,42
2. Repairs and Maintenance		
a) Buildings	16,91	7,64
b) Machinery	50,49	20,78
c) Others	42,17	29,73
3. Wheeling Charges	62,07	98,07
4. Other Operational Expenses	19	73
<b>ADMINISTRATION EXPENSES</b>		
5. Rent	2,60	—
6. Rates and Taxes	21	3
7. Insurance	5,39	2,05
8. Electricity Charges	1,35	1,14
9. Water Charges	1	—
10. Travelling and Conveyance	13,49	3,25
11. Expenses on Staff Cars	4,00	—
12. Telephone, Telex and Postage	2,55	38
13. Consultancy Charges	4,53	—
14. Advertisement & Publicity	1,06	11
15. Entertainment	55	9
16. Printing & Stationery.	1,96	46
17. Corporate Office Management Expenses	72,08	21,86
18. Other Miscellaneous Expenses	8,55	2,15
19. Loss on Sale of Assets	15	—
20. Prior Period Adjustment (Net)	18,05	—
<b>TOTAL</b>	<u>3,39,92</u>	<u>1,92,89</u>



# National Hydroelectric Power Corporation Ltd.



## EXPLANATORY NOTES

## SCHEDULE—13

1. Contingent liabilities exist in respect of the following:
  - a) Claims against the Company not acknowledged as debts amounting to Rs. 1.24.02 lakhs (Previous year Rs. 90.24 lakhs).
  - b) The cost of a piece of land at Torpa (Ranchi), the value of which cannot be ascertained at present.
  - c) Income tax demands for Rs. 151.42 lakhs (Previous year Rs. 52.84 lakhs) are disputed by the Corporation.
  - d) Estimated amount of contracts remaining to be executed on capital accounts and not provided for is Rs. 1490.38 lakhs (Previous year Rs. 680.08 lakhs). The contingent liability, if any, in respect of the Projects executed on Agency basis, Deposit works and works executed against grants-in-aid have not been included as the Corporation does not anticipate any liability.
2. No provision has been made in the accounts for Bonus as the liability for bonus under the Bonus Act has not accrued.
3. The loans and interests during construction (IDC) for Loktak Project have been rescheduled taking into account the increased Project Cost and start of commercial production from 1.6.1983. Formal orders of the Ministry of Energy for rescheduling of loans and IDC are awaited. Pending approval, Rs. 1533 lakhs has been transferred to Share Capital Deposit and Rs. 1081 lakhs representing interest written back to Incidental Expenditure during Construction. The interest during construction has been capitalised on the basis of rescheduled loans. Similarly interest during the financial year has been accounted for on the basis of rescheduled loans.
4. The Government of Himachal Pradesh has raised a claim against the Corporation for Share of profit earned from Baira Siul Project. As per the Revised Formula approved by the Central Government, the Royalty @ 1.5 P. per unit is only payable to the State Government and accordingly the provision for Royalty amounting to Rs. 126 lakhs during the year has been made.
5. The cost of land represents provisional/initial payments towards compensation and other incidental expenses. The land Registers could not be completed for want of details of acquisition costs etc. The title of land has also not been passed on to the Corporation pending completion of legal formalities.
6. Surplus/obsolete stores, lying at the Projects are in the process of being identified. Efforts are also being made to transfer the surplus stores to other Projects where required. As such, no provision has been made for losses, if any, which may arise from the disposal of such stocks.
7. Priced stores Ledgers are not complete and have not been reconciled. The net balance of Rs. 2366.49 lakhs reflected in the accounts is as per the General Ledgers.
8. The amount standing to debit/credit of parties, material issued on loan and stock issued to the Contractors and Fabricators and Advances are subject to confirmation and reconciliation.
9.
  - a) The agreement for the supply of power with Delhi Electric Supply Undertaking and Himachal Pradesh Electricity Board is under finalisation. Pending finalisation of the Agreement, the sale to DESU and HPSEB has been accounted for on a provisional basic rate of 28.15 paise per unit up to 31.12.1983 and thereafter @ 26.95 paise and 28.60 paise respectively.
  - b) The Agreement for supply of Power with the States of Assam, Nagaland and Manipur has not been finalised. Pending finalisation of the Agreement, the sale to these States from Loktak Project has been accounted for at a provisional basic rate of 44.5 P. per unit.
  - c) The Management fee for the construction management of Kanpur-Singrauli Line executed on behalf of NTPC has not been finalised with NTPC. Pending finalisation of fee, management fee has been accounted for provisionally at Rs. 141.27 lakhs.
10. Previous year's figures have been suitably rearranged, wherever practicable, to correspond to the current year's figures.
11. In certain cases, the complete relevant detail relating to outstanding advances to staff/departments is under preparation and reconciliation.



# National Hydroelectric Power Corporation Ltd.



12. In Baira Siul Project:
  - a) The current assets, and liabilities include balance of Rs. 133.15 lakhs and Rs. 162.81 lakhs respectively (previous year's Rs. 212.04 lakhs and Rs. 274.73 lakhs), on account of stores issued to the Contractors/ Advance payments to the suppliers and Sundry Creditors for supply of materials after reducing minus balances to the extent of Rs. 57.88 lakhs and Rs. 179.08 lakhs respectively. Lists of balances including the minus balances are being analysed for correcting the adverse balances and reconciliation with the balances as per general ledger.
  - b) The balance of Rs. 2.03 lakhs (previous year's Rs. 4.14 lakhs) appearing under the head Transfer between Depots, is under reconciliation and item-wise detail is being compiled.
  - c) The debit balance of Rs.31.18 lakhs and Rs. 15.03 lakhs respectively appearing under the head "Unpaid Salary and Wages" and "Payment Control Account" are under reconciliation for making necessary adjustments.
  - d) Claims amounting to Rs. 8.61 lakhs lodged with the Insurance Companies will be accounted for as and when realised.
  - e) Hire charges for Michhigum Loader given to Thein Dam have not been accounted for pending receipt of details regarding utilisation.
  - f) Some of the essential auxiliary and miscellaneous works on capital accounts were continued during the year. As most of the works are inter-linked and executed in stages, capitalisation has not been done pending completion of overall works. Accordingly, IEDC will also be allocated after completion of works.
  - g) Other Current Assets includes a sum of Rs. 63.27 lakhs under various suspense heads for which details are still to be worked out. Further no details are available for a sum of Rs. 34.56 lakhs shown as "other liabilities".
13. Rs. 217.27 lakhs included under "communications" in construction work in progress relates to expenditure incurred on Roads, Bridges and Culverts on land not belonging to Corporation and will be allocated in terms of Accounting Policy No. 10.
14. In Chukha Project, pending receipts of verified Bills and other related documents, no provision has been made in respect of some capital stores received and consumed within the year for which advance payments have not been adjusted.



# National Hydroelectric Power Corporation Ltd.



## ADDITIONAL INFORMATION REQUIRED UNDER PART II OF SCHEDULE VI OF THE COMPANIES ACT, 1956

### SCHEDULE—14 (Rs. in thousands)

Particulars	1983-84	1982-83
<b>1. EXPENDITURE ON EMPLOYEES</b>		
Expenditure on employees who are in receipt of remuneration not less than Rs. 36,000/- per annum if employed throughout the year or Rs. 3,000/- per month if employed for the part of the year		
<b>a) Employed throughout the year</b>		
i) Number of Employees	156	78
ii) Salary & Wages (Rs. in thousands)	60,10	34,75
iii) Value of perquisites (Rs. in thousands)	95	78
<b>b) Employed for the part of the year</b>		
i) Number of Employees	22	8
ii) Salary & Wages (Rs. in thousands)	4,44	1,97
iii) Value of perquisites (Rs. in thousands)	11	3
(This does not include employees at Salal and Devighat which are being executed on agency basis and the remuneration of such employees is debited to deposits from the Government of India and are not debited to the Corporation's Incidental Expenditure during Construction).		

However, information for Salal & Devighat Projects is an under:

	1983-84		1982-83	
	Salal	Devighat	Salal	Devighat
<b>a) Employed throughout the year</b>				
i) Number of Employees	13	20	8	5
ii) Salaries & Wages (Rs. in thousands)	5,35	10,48	3,55	2,10
iii) Value of perquisites (Rs. in thousands)	53	9	—	—
<b>b) Employed for the part of the year</b>				
i) Number of Employees	2	11	1	2
ii) Salaries & wages (Rs. in thousands)	57	3,44	13	69
iii) Value of perquisites (Rs. in thousands)	3	21	—	—

#### NOTE:

- The Gratuity amount has not been taken into account as the same has been provided on the basis of Gratuity-cum-L.I.C. Policy taken with Life Insurance Corporation.
- Emoluments of Devighat employees include foreign allowances.

	1983-84	1982-83
<b>2. EXPENDITURE INCURRED IN FOREIGN CURRENCY</b>		
i) Know-how	—	362
ii) Other Miscellaneous Matters	305	111

*Contd.*



# National Hydroelectric Power Corporation Ltd.



(Rs. in thousands)

Particulars	1983-84		1982-83	
3. VALUE OF SPARE PARTS & COMPONENTS CONSUMED				
i) Imported		—		—
ii) Indigenous	3156	100%	442	100%
4. Value of Imported Plant and Machinery and Spares	156		4209	
5. Licensed/Installed Capacity & actual production	Baira Siul		Loktak	
	1983-84	1982-83	1983-84	1982-83
1. Licensed Capacity	180 MW	180 MW	105 MW	—
2. Installed Capacity	180 MW	180 MW	105 MW	—
3. Actual Production	849.477 MU	820.96 MU	36.134 MU	
4. Value (Rs. '000)	236878	243626	15 190	
	(800.820 MU) (753.840 MU)		(32.666 MU)	



# National Hydroelectric Power Corporation Ltd.



## ACCOUNTING POLICIES

1. Liability accruing from year to year on account of service gratuity is discharged by paying requisite premium on LIC Policy and accounted for in the year of payment.
2. Liability for payment for imported equipment/services is worked out with reference to the rate of exchange ruling on the date of payment.
3. The Corporation has received grants-in-aid for investigation of various Projects. The balance of grants-in-aid has been reflected in accounts under Current Liabilities and Provisions after deducting expenditure incurred on investigation works. The ownership of the assets for the expenditure incurred from grants-in-aid does not vest with the Corporation and hence is not included in the assets of the Corporation.
4. Liability, if any, for capital works executed but not measured has not been provided as the works have not been finally inspected and accepted by the Corporation. Similarly, liability for material in transit has not been provided till the time of receipt, inspection and acceptance of the material by the Corporation.
5. The completed assets have been capitalised on the basis of cost incurred on construction of such assets. However, where the actual expenditure could not be determined, the same has been determined on the basis of estimated cost.
6. The amounts contributed by other agencies including State Governments towards part of cost of certain Assets belonging to Corporation have been reduced from the cost of such Assets and the net cost has been shown in the Accounts.
7. In the Project under construction, the grant/share of cost/expenditure incurred on the assets on land not belonging to the Corporation has been accounted for under Construction work-in-progress pending final allocation.
8. Depreciation on fixed assets is provided up to 95% of the cost on straight line method by dividing the original cost of the assets by the specified period calculated in accordance with the Income-tax Act, 1961 and rounded to the next two decimals on higher side, taking into effect the double shift and triple shift workings in applicable cases.
9. Inter Project/Unit transfers of plant and machinery and stores are transferred at Book Value.
10. The total amount of incidental expenditure during construction and intangible expenditure incurred on the project which has been put to commercial operation during the year have been allocated on the tangible fixed immovable assets excluding land on the basis of cost appearing/adjusted as on 1st day of the start of commercial production.
11. Value of stock of capital stores and revenue stores lying at various work/sites has been directly charged to construction works-in-progress and generation, transmission and administrative expenses respectively.
12. The petty items and tools, the individual value of which is less than Rs. 100/- has been charged to consumption a/c. The value of loose tools costing Rs. 100/- and more in each case has been capitalised and shown under loose tools. The value of loose tools so capitalised has been written off in 5 equal annual instalments by debit to consumption of loose tools.
13. The Corporate Office expenses excluding advances and assets is allocated as under:—
  - a) On the existing Transmission Lines being executed by the Corporation as deposit works at a flat rate of 2% of the direct capital expenditure incurred. The profit or loss if any, on deposit work taken on fixed Administration/Management fees would be adjusted/accounted for on completion of such work and finalisation of its account.
  - b) Estimated Design expenses incurred in the Corporate Office in respect of Projects/Units on the basis of quantum of services rendered to the respective projects/units.
  - c) On operational projects @ 1% of sales of energy excluding wheeling charges and excise duty.
  - d) The balance expenditure is allocated to Projects under construction, Investigation, agency basis and capital expenditure on operational projects on pro-rata basis in the ratio of their net capital expenditure incurred during the year.



# National Hydroelectric Power Corporation Ltd.



14. The interest, if any, to be received on overdue payments for the sale of energy, and advances given to the staff, suppliers etc. has been accounted for as and when actually received and not on the basis of accrual.
15. Expenses or income related to earlier years incurred or realised during the current year have been shown under the heading "Prior period adjustments" only if the amount involved is more than Rs 5,000/- in each case.
16. The liability, if any, on account of reimbursement of deficit of Employees Provident Fund Trusts are accounted for as and when the amounts are paid to the Trusts.
17. In operational projects, where construction activity is still continuing, the common service expenses have been primarily allocated on the basis of estimated services rendered to/benefit derived by each activity i.e. construction/operation.



# National Hydroelectric Power Corporation Ltd.



## AUDITORS' REPORT

### To the Members of National Hydroelectric Power Corporation Limited

We have audited the attached Balance Sheet of National Hydroelectric Power Corporation Limited as at 31st March, 1984 and the Profit and Loss Account for the year ended on that date, annexed thereto, in which are incorporated the accounts of the Projects/ Units audited by the Branch Auditors.

- I. As required by the Manufacturing and other Companies (Auditors' Report) Order, 1975, issued by the Company Law Board in terms of Section 227(4A) of the Companies Act, 1956, we enclose in the Annexure, a statement on the matters specified in paragraphs 4 and 5 of the said Order.
- II. Subject to our comments in the annexure referred to in paragraph I above, we report as under:—
  - 1) We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit;
  - 2) In our opinion, proper books of account, as required by law, have been kept by the Company, so far as appears from our examination of the books and proper returns, adequate for the purpose of audit, have been received from the Projects/ Units not visited by us;
  - 3) The reports of the Branch Auditors, in respect of the Projects/ Units not audited by us, have been received and the same have been considered while preparing our report;
  - 4) The Balance Sheet and Profit & Loss Account dealt with by this Report are in agreement with the books of accounts and returns;
  - 5) In our opinion and to the best of our information and according to the explanations given to us, the said accounts, together with the Accounting Policies and Explanatory Notes forming part thereof, and subject to:
    - i) Item No. 13: of the accounting policies regarding the allocation of Corporate Office expenses on the rates fixed by the management to Profit and Loss Account and incidental expenditure during construction;

### NOTES

- ii) No. 4. regarding the provision for royalty payable to Himachal Pradesh Government in respect of Baira Siul Project, which has been made at the rate of 1.5. paise per unit in accordance with the approval of the Central Government, whereas the Himachal Pradesh Government has raised a claim for sharing of 50% of the Profits earned up to 1983-84;
- iii) No. 5. regarding accounting for the cost of land on the basis of provisional/initial payments and the non-completion of land registers;
- iv) No. 7. regarding non-completion and non-reconciliation of Priced Stores Ledgers maintained at different projects, as a result the Corporation has to adopt the General Ledger balance as the value of inventory;
- v) No. 9 (a) regarding adoption of a provisional rate for sale of power to Delhi Electricity Supply Undertaking and Himachal Pradesh State Electricity Board;
- vi) No. 9 (b) regarding adoption of provisional rate for sale of power to the States of Assam, Nagaland and Manipur;
- vii) No. 9 (c) regarding accounting of management fees recoverable from National Thermal Power Corporation, amounting to Rs.141.27 lakhs on provisional basis;
- viii) No. 11. regarding adoption in the final accounts of general ledger balances relating to outstanding advances to staff/departments etc. without reconciliation of such ledger balances with the subsidiary records;
- ix) No. 12(a) regarding the non-reconciliation of balance of advances to contractors/suppliers with balances as



# National Hydroelectric Power Corporation Ltd.



- per general ledger, the consequent effect of which, on the capital work-in-progress, current assets etc., is not yet quantifiable;
- x) No. 12(b) regarding the non-reconciliation of amount under the head "Transfer between depots" and its consequent effect on the Balance Sheet as on 31.3.1984;
  - xi) No. 12(c) regarding non-adjustment of the amounts under the heads "Unpaid Salary and Wages" and "Payment Control Account" and its resultant effect on the final accounts;
  - xii) No. 12(e) regarding non-accounting of hire charges in respect of one machine (book value Rs. 24,886/-) given to Thein Dam (Punjab Government), who paid Rs.5.10 lakhs on taking over the Machine. It has been stated by the management that the machine is not for sale;
  - xiii) No. 12(g) which indicates that current assets worth Rs.63.27 lakhs and current liabilities of Rs.34.56 lakhs are not verifiable;
  - xiv) No. 14 regarding capital work-in-progress being understated at Chukha, owing to non-adjustment of advances;
  - xv) regarding non-accountal of certain stores purchased at Chukha and directly debited to other accounts rather than to stock accounts. Quantification of such stores is not possible as the information was not provided;
  - xvi) the provision of depreciation amounting to Rs.37,095/- on the estimated value of assets (Rs.15,60,966/-) at Koel Karo;
  - xvii) the inclusion of certain expenditure incurred at Baira Siul Project before 31.3.1983 in capital work-in-progress, which will affect the capitalisation already done on 1.4.1982. The total of such expenditure has not been indicated;
  - xviii) the allocation of certain expenses, common to the construction and operational activities at Baira Siul Project, having been done on the basis of the ratio of staff strength sanctioned and other factors for such activities. The effect on the profit/loss, if any, cannot be quantified for want of complete details;
  - xix) the Company not having provided the amount due, if any, from the Government of India on account of Gratuity relating to employees belonging to Loktak and Baira Siul Projects prior to their take over;
  - xx) additions to and deductions from fixed assets shown in Schedule 5, include inter-unit transfer within the Corporation;

give the information required by the Companies Act, 1956 in the manner so required and give a true and fair view;

- i) in the case of Balance Sheet, of the state of affairs of the Corporation, as at 31st March, 1984;
- ii) in the case of Profit & Loss Account, of the loss of the Corporation, for the year ended on the date.

for S.L. KHINDARIA & CO.  
Chartered Accountants  
S.L. Khindaria  
PARTNER

New Delhi.  
Dated 14th September, 1984



# National Hydroelectric Power Corporation Ltd.



## ANNEXURE TO THE AUDITORS' REPORT

### Referred to in our Report of even date.

- A (i) The Company has maintained proper records for a major portion of the fixed assets except land. As mentioned in Note No. 5 land has been capitalised at a provisional cost. The records maintained do not show situational details in most cases and the year of acquisition in some cases at Chukha. Physical verification of fixed assets has not been done at Dulhasti Project during the year. At some other sites these have been partially verified. No adjustment has been made in respect of the discrepancies that have been noticed.
- (ii) Fixed Assets have not been revalued during the year.
- (iii) Physical verification of stores and spare parts has been conducted during the year except at Chukha and Koel Karo where only a portion of these have been verified. No serious discrepancies were noticed on such verification. Losses on account of shortages, thefts and damages at Baira Siul estimated at Rs.9.45 lakhs are under investigation and have not been adjusted in the books of accounts. At Dulhasti the value of stores is subject to adjustment with regard to material issued to contractors/ works which has not been adjusted due to non-finalisation of material issued notes. As mentioned in our Qualificatory Note No.(xv) the stocks of stores and spare parts at Chukha site has been understated due to purchases being directly debited to other accounts rather than to stock accounts.
- (iv) The Corporation has not taken any loans secured or unsecured, from Companies, firms, or other parties listed in the register maintained under Section 301 and 370 (I-C) of the Companies Act, 1956.
- (v) The Company has given advances in the nature of loans only to the employees of the Corporation. The employees are generally repaying the principal amounts as stipulated and are also generally regular in payment of interest.
- (vi) In our opinion, the internal control procedure with regard to purchase of stores, plant and machinery, equipment and other assets is commensurate with the size of the company and nature of its business, except in the case of local purchases at some projects. The laid down procedures need to be strictly followed.
- (vii) On the basis of information made available to us, no purchases have been made during the year, of stores and spare parts or components exceeding Rs.10,000/- in value for each type from firms or companies or other parties in which the Directors are interested.
- (viii) As mentioned in Note No. 6 the surplus/obsolete stores lying at the Projects are in the process of being identified. Necessary provision for losses will be made only after the ascertainment of such stores.
- (ix) The Corporation has not accepted any deposits from the public.
- (x) As explained to us, no by-products or scrap has been generated during the course of generation of electricity. However, in our opinion reasonable records have not been maintained in respect of scrap being generated during the process of construction except at Loktak Project.
- (xi) The Corporation has an internal audit system in operation. However, the system is not commensurate with the size of the company and the nature of its business. The scope of internal audit needs to be substantially strengthened and follow up action on internal audit reports needs expediting. At Dulhasti Project internal audit for the year 1983-84 was conducted during May, 1984 but no report was shown to us.
- (xii) Maintenance of cost records has not been prescribed by the Central Government under Section 209(i) (d) of the Companies Act, 1956.



# National Hydroelectric Power Corporation Ltd.



(xiii) Provident Fund dues have not been deposited in some cases within the stipulated time with the appropriate authorities, during the year. At Koel Karo, the Provident Fund dues were not deposited with the appropriate authorities till 30th January, 1984. However, after formation of Provident Fund Trust at Project level the entire outstanding amount was deposited with the Trust.

**B** In respect of agency works/deposit works.

- (i) The Company has a reasonable system of recording receipts, issues and consumption of stores and materials. Such system also provides for a reasonable allocation of the materials and man-hours consumed to relevant projects.
- (ii) There exists a reasonable system of authorisation at proper levels with necessary control on the issue of stores and allocation of stores and labour to jobs. The internal control system needs strengthening considering the size of the company and nature of its business.

For S.L.KHINDARIA & CO.  
Chartered Accountants

Place: New Delhi.  
Date: 14th September 1984

S.L. KHINDARIA  
PARTNER



# National Hydroelectric Power Corporation Ltd.



## COMMENTS OF THE COMPTROLLER AND AUDITOR-GENERAL OF INDIA SECTION 619(4) OF THE COMPANIES ACT, 1956.

I have to state that the Comptroller and Auditor-General of India has no comments upon or supplement to the Auditor's Report, under Section 619(4) of the Companies Act, 1956, on the accounts of National Hydroelectric Power Corporation Limited for the year ended 31st March, 1984.

BHOPAL

Date: 25th September, 1984.

*Sd/-* N. Srivastava  
Member, Audit Board & Ex-Officio  
Director of Commercial Audit