

ODISHA HYDRO POWER Corporation Ltd.

MEMORANDUM OF UNDERSTANDING

BETWEEN

DEPARTMENT OF ENERGY GOVERNMENT OF ODISHA

AND

ODISHA HYDRO POWER CORPORATION LTD.

FOR THE YEAR 2023-24

Balimela Hydro Electric Project, Balimela

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Upper Indravati Hydro Electric Project, Mukhiguda



Hirakud Hydro Electric Project, Burla



Chiplima Hydro Electric Project, Chipilima



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FOR THE YEAR 2023-24



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MEMORANDUM OF UNDERSTANDING

BETWEEN

DEPARTMENT OF ENERGY GOVERNMENT OF ODISHA

AND

ODISHA HYDRO POWER CORPORATION LTD FOR THE FINANCIAL YEAR (2023-24)

PART -I

1. MANDATE

To develop Hydro Power resources in the state and to renovate, modernize and operate existing hydro power plants for providing cheap and reliable power to the state and foray into alternate sources of green energy for long term energy security of the State and energy transition.

2. VISION

To be a leading power utility in the energy sector through diversified energy portfolio with due care & concern to the environment.

3. MISSION

- (i) To augment hydro power generating capacity by setting up new hydro power projects.
- (ii) To adopt state of the art technology for up-gradation of the existing hydro power stations so as to achieve the highest level of efficiency.
- (iii) To professionalize the work force with modern management and technical know-how.

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4. OVERALL GOAL AND OBJECTIVES

(A) DEVELOPMENTAL OBJECTIVE

- (i) To renovate and modernize the existing hydro power plant to improve efficiency and supply reliable and quality power to the State in a cost effective manner.
- To accelerate development of Hydroelectricity projects, Renewable Energy and Pumped Storage projects in the state for energy transition.

(B) COMMERCIAL OBJECTIVE FOR FY 2023-24

- (i) To achieve energy generation target of **5602.60 MU**.
- (ii) To achieve Net Profit (after tax) target of Rs. 207.10 Crore.
- (iii) To achieve weighted average plant availability factor of 85%.
- (iv) To accelerate DPRs of Pumped Storage Projects with focus on early implementation of Upper Indravati PSP (600 MW).
- (v) To accelerate DPR of 63 MW Kharag Hydro Electric Project.
- (vi) To complete Renovation and Modernization of Unit 3 & 4 of Balimela Hydro Electric Project.

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PART -II

A. EXERCISE OF AUTONOMY

OHPC, being a Gold rated PSU, has been empowered by Govt. of Odisha to take decision on capital investment up to Rs. 100 Crores. The activities undertaken are as follows:

(i) Renovation, Modernization & Uprating of Power Stations are as below-

(a) Unit-3(24MW) of CHEP, Chiplima

On completion of Renovation & Modernization work, Unit-3 of CHEP, Chiplima was put to commercial operation with effect from 21.01.2020.

(b) Unit-5 & 6(2*43.65MW) of HHEP, Burla

On completion of R, M & U work of Unit 5 & 6 of HHEP, Burla, the units were put to commercial operation with enhanced capacity with effect from 02.11.2021 & 09.01.2022 respectively.

(c) Unit -1 to 6(6*60MW) of BHEP, Balimela

• On completion of Renovation & Modernisation work of Unit 2 & 1 of BHEP, Balimela, the units were put to commercial operation with effect from 29.12.2021 & 15.04.2022 respectively.

• The erection of 20 MVA Station Transformer has been completed & likely to be commissioned by 30.06.2022. After commissioning of the 20 MVA Station Transformer, Unit 3 & 4 will be handed over to the contractor M/s BHEL for taking up the R & M works of the Units on 16.08.2022 and 10.08..2022 respectively.

(ii) Projects in Pipeline & Status thereof:

OHPC has taken initiative to develop 3 nos. Pumped Storage Projects and 02 nos. of Hydroelectric Projects. The DPR preparation work of following Projects are in progress. The

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brief status of projects are mentioned below:

• Upper Indravati Pumped Storage Project (4 x 150 MW):-

Draft DPR of UIPSP has been prepared and sent to CEA & CWC for scrutiny. All pre- DPR clearances have been obtained except GSI and CSMRS. Interstate clearance has been received on 13.09.2022 from CWC. For geotechnical investigation, drilling and drifting works are under progress since February 2023.

• Upper Kolab Pumped Storage Project (2 x 160 MW):-

For preparation of DPR of UKPSP, Topographical survey has been completed. Hydrology chapter, General layout and Topographical survey report have been submitted to CWC for vetting. Geotechnical investigation will be taken up for further study.

• Balimela Pumped Storage Project (2 x 250 MW):-

For preparation of DPR of Balimela PSP, Topographical survey, Surface geological mapping have been completed. Clearance on Hydrology Chapter received on 12.04.2023 from CWC. Geotechnical investigation will be taken up for further study.

• Kharag Hydro Electric Project (3 x 21 MW) :-

For preparation of DPR of Kharag HEP Topographical survey, Hydrology, Power Potential study etc. have been completed. For geotechnical investigation drilling work is under progress from March 2023.

• Salki Hydro Electric project (44 MW):-

Layout finalisation and irrigation potential study is under progress.



PART -III

2023-2024 2022.22 SL Particulars Unit Weight 2024-25 No. (Un-Audited) Verv Excellent Good Fair Poor Good STATIC 1 50 PARAMETERS Financial 11 Performance Indicators Rs Cash Flow 12 264.43# 200.37 190.83 181 20 171 75 162 21 205.28 111 (Operational) Crs. Turnover (Sale of Rs 1.1.2 10 498.93 553.65 527.29 500.93 474.56 448.20 550.87 Power) Crs. Rs. 113 Net Profit 12 443 60* 217 46 207 10 186.39 176.04 223 30 196 75 Crs Return on Capital 1.1.4 % 10 17.45 10 58 10.08 9 58 9.07 8 57 10.27 Employed Net Turnover per Rs. in 79.76 1.1.5 6 70.39 67.04 63.69 60.34 56.98 74.85 Employee Lakhs DYNAMIC 2 35 PARAMETERS Human Resource 2.1. 03 Refer Annexure-1 Development Renovation & Modernisation of OHPC Power 22 Station and 25 Refer Annexure-2 Maintenance Activities in Power House Project 23 Implementation 07 Refer Annexure-3

Status GENERAL

MEASURES Timely Approval

of Financial

Submission of

Introduction of

processes

Number of Ouestions

IT in the business

Answered (State Legislature) Number of Training

Programmes

Results Timelv

MoU

15

3

3

3

2

2

13.09.23

20 10 22

Introduced

E-Office

at C.O on

03.11.22

149

19

12.09.24

15 05 23

E-office

for 03

three

units by

30.11.23

50

30.09.24 31.10.24

15.07.23

31.01.24

100%

46

15.06.23

31.12.23

48

30.11.24

15.08.23

29.02.24

43

31.12.24

15.09.23

31.03.24

41

30.09.25

12.06.24

Rest 03

units by

31.12.24

100

60

Time

line

Time

Line

Time

Line

Nos

Nos

3

3.1.

3.2.

3.3.

3.4.

3.5.

PERFORMANCE EVALUATION CRITERIA AND TARGET

Conducted No. of Pension 3.6. Nos 2 130 105 100 95 90 85 100 Cases disbursed # Operating Cash Flow calculated based upon sales realisation from GRIDCO & CSPDCL and it's assume that GRIDCO will continue monthly payment towards sale of energy by taking 60 days credit. *Net Profit for the FY 2022-23 includes the Profit on sale of investment in OPGC & OCPL for Rs.248.41 Crs. & Dividend received from OCPL for Rs.70.00 Crs.

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Annexure-1

| Sl No. | Particulars | Unit | Wt. | 2022-23 | 2023-24 | 2024-25 |
|-----------|--|------|-----|---------|---------|---------|
| 1. | No. of Persons recruited during the year | Nos. | 1 | 200 | 200 | 200 |
| 2. | No. of IR Paras raised/ resolved during the year | Nos. | 0.5 | Nil | - | - |
| 3. | No. of RTI Questions answered during the year | Nos. | 0.5 | 190 | - | - |
| 4. | No. of Man hour trained during the year | Hrs. | 1 | 3050 | 4000 | 4500 |

HUMAN RESOURCE DEVELOPMENT

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Part-(i) of Annexure-2

DYNAMIC PARAMETERS

RENOVATION & MODERNISATION OF OHPC POWER STATION FOR FY 2022-23

| Sl No. | Milestones | 2022-23 (Achievements) |
|--------|--|---------------------------|
| Α | RENOVATION & MODERNISATION OF UNIT 3 OF CHEP, CHIPLIMA | |
| a. | Final Take Over of the Unit | 26.04.22 |
| В. | RENOVATION & MODERNISATION OF 6 NOS. OF UNITS OF BHEP, BALIMELA | |
| a. | PG test of Unit -1 of BHEP, Balimela | 21.03.23 |
| b. | PG test of Unit -2 of BHEP, Balimela | 21.03.23 |
| с. | 20 MVA station transformer commissioning | 15.06.22 |
| d. | Dismantling of Unit 3 & 4 of BHEP, Balimela | 24.01.23 |
| C. | RENOVATION & MODERNISATION OF UNITS 5 & 6 OF HHEP, Burla. | |
| a. | PG test of Unit 5 of HHEP, Burla | 06.09.22 |
| b. | Final Take Over of the Unit 5 & Unit-6 of HHEP, Burla | |

RENOVATION & MODERNISATION OF OHPC POWER STATIONS FOR FY 2023-24

| SI. | | | 2023-24 | | | | | | | |
|-----|---|-------|-----------|--------------|----------|----------|----------|--|--|--|
| No. | Milestones | Wt. % | Excellent | Very Good | Good | Fair | Poor | | | |
| А. | Renovation & Modernization of Six Nos. of Units of BHEP | 10 | | | | | | | | |
| 1 | Dry Commissioning of Unit 4 | 02 | 31.01.24 | 15.02.24 | 28.02.24 | 15.03.24 | 31.03.24 | | | |
| 2 | Spinning of Unit 4 | 02 | 07.02.24 | 15.02.24 | 28.02.24 | 15.03.24 | 31.03.24 | | | |
| 3 | Wet Commissioning of Unit 4 | 02 | 22.02.24 | 28.02.24 | 07.03.24 | 15.03.24 | 31.03.24 | | | |
| 4 | Dry commissioning of Unit-3 | 02 | 28.02.24 | 07.03.24 | 15.03.24 | 22.03.24 | 31.03.24 | | | |
| 5 | Spinning of Unit-3 | 02 | 07.03.24 | 15.03.24 | 20.03.24 | 25.03.24 | 31.03.24 | | | |

RENOVATION & MODERNISATION OF OHPC POWER STATIONS FOR FY 2024-25

| Sl. No. | | FY 2024-25 | | | | | | | | | |
|---------|------------------------------------|---|--|--|--|--|--|--|--|--|--|
| 51.110. | Work to be Taken up | | | | | | | | | | |
| | | Renovation & Modernization of Six Nos. of Units of BHEP | | | | | | | | | |
| 1 | (a) Weight commissioning of Unit-3 | | | | | | | | | | |
| | (b) | Commercial operation of Unit-4 | | | | | | | | | |
| | (c) | Commercial operation of Unit-3 | | | | | | | | | |
| | (d) | Handing over of Unit-5 & 6 | | | | | | | | | |
| | (e) | Dismantling of Unit-5 &6 | | | | | | | | | |

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Part-(ii) of Annexure-2

MAINTENANCE ACTIVITIES IN POWER HOUSES

| SI | 2023-24 | | | | | | | | |
|------|------------------------------------|-------|--------------|-----------|--------------|----------|----------|----------|---------------------------------------|
| No. | | Wt. % | 2022-23 | Excellent | Very Good | Good | Fair | Poor | 2024-25 |
| A | Upper Kolab H.E. Project | 1.5 | | | | | | | |
| a. | Annual Maintenance of Units | | | | | | | | |
| i. | First Unit | 0.5 | 08.06.22 | 01.12.23 | 15.12.23 | 31.12.23 | 15.01.24 | 31.01.24 | Will be carried |
| ii. | Second Unit | 0.5 | 31.03.23 | 20.01.24 | 10.02.24 | 20.02.24 | 01.03.24 | 15.03.24 | out in |
| iii. | Third Unit | 0.5 | 27.02.23 | 31.01.24 | 15.02.24 | 20.02.24 | 15.03.24 | 31.03.24 | scheduled date & time. |
| В. | Balimela H.E. Project | 3.0 | | | | | | | |
| a. | Annual Maintenance of Units | | | | | | | | |
| i. | First Unit | 1.0 | Not taken | 30.11.23 | 31.12.23 | 31.01.24 | 28.02.24 | 31.03.24 | Will be carried |
| ii. | Second Unit | 1.0 | Not taken | 31.12.23 | 20.01.24 | 10.02.24 | 05.03.24 | 31.03.24 | out in scheduled |
| iii. | Third Unit | 1.0 | | 31.01.24 | 15.02.24 | 28.02.24 | 15.03.24 | 31.03.24 | date & time |
| C. | Rengali H.E. Project | 1.5 | | | | | | | |
| a. | Annual Maintenance of Units | | | | | | | | |
| i. | First Unit | 0.5 | 05.07.22 | 01.12.23 | 10.12.23 | 31.12.23 | 10.01.24 | 21.01.24 | Will be carried |
| ii. | Second Unit | 0.5 | 31.03.23 | 31.12.23 | 20.01.24 | 10.02.24 | 05.03.24 | 31.03.24 | out in |
| iii. | Third Unit | 0.5 | Not taken | 31.01.24 | 15.02.24 | 28.02.24 | 15.03.24 | 31.03.24 | scheduled date & time |
| D. | Upper Indravati H.E. Project | 3 | | | | | | | |
| a. | Annual Maintenance of Units | | | | | | | | |
| i. | First Unit | 1.5 | 07.06.22 | 15.10.23 | 15.11.23 | 15.12.23 | 15.01.24 | 15.02.24 | Will be carried |
| ii. | Second Unit | 1.5 | Not taken | 15.12.23 | 10.01.24 | 05.02.24 | 03.03.24 | 31.03.24 | out in scheduled date & time |
| E. | Hirakud H.E. Project | 4 | | | | | | | |





| a. | Annual Maintenance of | | | | | | | | |
|-----|-----------------------------------|---|----------|----------|----------|----------|----------|----------|---------------------------------------|
| | Units | | | | | | | | |
| i. | First Unit | 1 | 22.06.22 | 30.04.23 | 31.05.23 | 30.06.23 | 31.07.23 | 31.08.23 | Will be |
| ii. | Second Unit | 1 | 16.07.22 | 30.11.23 | 31.12.23 | 31.01.24 | 28.02.24 | 31.03.24 | carried out in |
| iii | Third Unit | 1 | 21.12.22 | 31.12.23 | 20.01.24 | 10.02.24 | 05.03.24 | 31.03.24 | scheduled date & |
| iv. | Forth Unit | 1 | 16.01.23 | 31.01.24 | 15.02.24 | 28.02.24 | 15.03.24 | 31.03.24 | time |
| F. | Chiplima H.E. Project | 2 | | | | | | | |
| a. | Annual Maintenance of Units | | | | | | | | |
| i. | First Unit | 1 | 04.01.23 | 31.12.23 | 20.01.24 | 10.02.24 | 03.03.24 | 31.03.24 | Will be carried |
| ii. | Second Unit | 1 | 27.02.23 | 28.02.24 | 05.03.24 | 10.03.24 | 15.03.24 | 31.03.24 | out in scheduled date & time |



Annexure-3

PROJECT IMPLEMENTATION STATUS

New Hydro Projects & Pump Storage Projects 2022-23

| | , i e , |
|-----|---|
| | Upper Indravati PSP: Interstate clearance received on 13.09.2022. |
| (A) | Drafting work commenced at site from 14.02.2023. The drilling |
| | work for NIRM testing commenced at site from 31.03.2023. |
| (B) | Upper Kolab PSP: Topography Survey completed and layout |
| (B) | finalised on 11.03.2023. |
| | Balimela PSP: Compliance to the views of Govt. of Andhra |
| (C) | Pradesh regarding Interstate clearance has submitted to DoWR, |
| | GoO on 18.07.2022. |
| | Kharag HEP: Forest clearance to carryout geotechnical investing |
| | (drilling) obtained on 24.12.2022. Drilling work commenced at |
| (D) | site from 03.03.2023. Drilling of two nos. of Bore hole out of 11 |
| | nos. completed. |

| S1. | | Wt. | 2023-24 | | | | | | |
|------|---|-----|-----------|--------------|----------|----------|----------|--|--|
| No. | Milestones | % | Excellent | Very Good | Good | Fair | Poor | | |
| А. | Upper Indravati PSP: | 4 | | | | | | | |
| i. | Techno Economic Clearance (TEC) | 1.5 | 10.01.24 | 25.01.24 | 13.02.24 | 28.02.24 | 15.03.24 | | |
| ii. | Drifting for 100 Mtr. | 1.5 | 28.01.24 | 15.02.24 | 28.02.24 | 15.03.24 | 31.03.24 | | |
| iii. | Preparation of Land schedule | 1.0 | 10.01.24 | 25.01.24 | 13.02.24 | 28.02.24 | 15.03.24 | | |
| В. | Upper Kolab PSP: | 1.5 | | | | | | | |
| i. | Completion of 50m drilling work for geotechnical investigation | 1.5 | 28.01.24 | 15.02.24 | 28.02.24 | 15.03.24 | 31.03.24 | | |
| C. | Kharag HEP: | 1.5 | | | | | | | |
| i. | Completion of Draft DPR | 1.5 | 15.01.24 | 30.01.24 | 15.02.24 | 28.02.24 | 15.03.24 | | |

New Hydro Projects & Pump Storage Projects 2023-24





New Hydro Projects & Pump Storage Projects 2024-25

| (A) | Upper Indravati PSP: |
|-----|---|
| 1. | Award of Contract Package (s). |
| 2. | Forest clearance and environmental clearance. |
| (B) | Upper Kolab PSP: |
| 1. | Completion of Draft DPR. |
| (C) | Balimela PSP: |
| 1. | Completion of Draft DPR. |
| (D) | Kharag HEP: |
| 1. | Forest clearance and environmental clearance. |

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MANAGING DIRECTOR OHPC LTD

0.7.2023

FA- CUM -ADDITIONAL SECRETARY TO GOVT OF ODISHA ENERGY DEPARTMENT



PART -IV

COMMITMENTS/ ASSISTANCE FROM THE STATE GOVT.

- For Forest clearance, environmental clearance & interstate clearance for New Hydro Projects & Pump Storage Projects, Assistance/ Support from the State Government is required to expedite the projects.
- For financing New Hydro Projects & Pump Storage Projects, financial assistance from Financial institution may be required with Govt. of Odisha Guarantee, besides Viable Gap Funding, if required.
- Further, State Government intervention may be required for expedition of New Hydro Projects & Pump Storage Projects at ministry level, i.e. Ministry of Water Resources & Ministry of Power, Govt. of India for resolving interstate issues.
- Assistance of State Govt. is also required for acquisition of Land for setting of infrastructure including roads, buildings, bridges, culvert & new transmission line, etc.

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DETAILS OF MOU

| | DETAILS OF MOU | | | | | | | | | |
|----------|---|---|---------|--------|---------------|--------|---------|--------|--|--|
| Sl No | Details of MoU | Details of MoU2022-23 Unit2023-24 (Un-Audited)Details of MoUUnit(Estimated) | | | 1-25 osed) | | | | | |
| 1 | Generation and Plant availability targets | | | | | | | | | |
| | (i) Energy Generation | MU | 4915.51 | | 5661.00 | | 5661.00 | | | |
| | (ii) Saleable Energy | MU | 4802.39 | | 5602.60 | | 5602.60 | | | |
| | (iii) Average Tariff of OHPC approved by OERC | P/U | 89.28 | | 93.49 | | 97.70 | | | |
| 2 | (a)Total Energy Sales | Rs. Cr. | 498.93 | | 527.29 | | 550.87 | | | |
| | (b) Other Income | Rs Cr | 451.07 | | 214.85 | | 224.55 | | | |
| | Total Turnover | | | 950.00 | | 742.14 | | 775.42 | | |
| 3 | Operation & Maintenance Expenses | Rs. Cr. | 299.45 | | 338.83 | | 355.77 | | | |
| 4 | Gross Margin (2-3) | Rs. Cr. | | 650.55 | | 403.31 | | 419.65 | | |
| 5 | Depreciation | Rs. Cr. | 67.21 | | 63.85 | | 60.66 | | | |
| 6 | PBIT / Gross Profit | Rs. Cr. | | 583.34 | | 339.46 | | 358.99 | | |
| 7 | Interest Payment | Rs. Cr. | 64.82 | | 62.71 | | 60.59 | | | |
| 8 | Profit Before Tax | Rs. Cr. | | 518.52 | | 276.75 | | 298.40 | | |
| 9 | Tax @ 25.168% | Rs. Cr. | 74.92 | | 69.65 | | 75.10 | | | |
| 10 | Net Profit after tax (8-9) | Rs. Cr. | | 443.60 | | 207.10 | | 223.30 | | |
| 11 | Capital Employed | Rs. Cr. | 3342.49 | | 3366.21 | | 3497.15 | | | |
| 12 | Return on capital employed (6/11) | % | | 17.45 | | 10.08 | | 10.27 | | |
| 13 | No of employees | Nos | 1191 | | 1107 | | 1036 | | | |
| 14 | Turnover per employee (2/13) | Rs. lakhs | | 79.76 | | 67.04 | | 74.85 | | |
| 15 | Contribution to State Exchequer | Rs. Cr. | | 61.47 | | 170.13 | | 79.64 | | |
| i. | Electricity Duty | Rs. Cr. | 5.45 | | 5.72 | | 6.01 | | | |
| ii. | Water Cess | Rs. Cr. | 8.33 | | 8.75 | | 9.18 | | | |
| iii. | Dividend | Rs. Cr. | 45.59 | | 153.45 ^ | | 62.13 | | | |
| iv. | GST | Rs. Cr. | 2.10 | | 2.21 | | 2.32 | | | |

^Dividend to be paid during the FY 2023-24 includes dividend for the FY 2021-22 of Rs.20.36 Crs. & dividend for the FY 2022-23 of Rs.133.08 Crs.,i.e. 30% of Post tax profit of Rs.443.60 Crs.

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PART -V

Action plan for Implementing and Review of the MOU

- i. The generation target for FY 2023-24 has been prepared based on the nearest to actual basis as per availability of Machine, R&M & planned shutdown works & as per OERC approved ARR/ Tariff proposal.
- ii. The maintenance of power houses shall be undertaken as per schedule for ensuring normative availability of machines fixed by OERC for each of the power stations.
- iii. The management of the Power house shall be made more vigilant so that there will not be any setbacks during tendering and subsequent execution of works.
- iv. OHPC shall send quarterly performance report to Energy Deptt. for review and guidance.
- v. The final evaluation of performance for the year FY 2023-24 will be done after Audit of final Accounts.

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MANAGING DIRECTOR OHPC LTD

FA- CUM -ADDITIONAL SECRETARY TO GOVT OF ODISHA ENERGY DEPARTMENT



PART –VI DEFINITION OF VARIOUS FINANCIAL PARAMETERS

- i. TURNOVER = SALE OF POWER (Energy Sales to GRIDCO & CSPDCL)
- ii. NET TURNOVER = SALE OF POWER + OTHER INCOME Excluding excise duty, sales tax, commission and discounts etc.
- iii. GROSS PROFIT = Excess of Income over expenditure before providing for interest, taxes (including deferred taxes), extra ordinary items, prior period adjustments and appropriations to reserves.
- iv. NET PROFIT = Derived from gross profit after providing for depreciation, interest, taxes (including deferred taxes), extra ordinary items, prior period adjustments but before providing for appropriations to reserves.
- v. RETURN ON CAPITAL EMPLOYEED (ROCE) = Profit before interest and tax (PBIT) / Capital employed.
- vi. CAPITAL EMPLOYED = Equity Capital + Reserves and Surplus
 + Pref. Share Capital + Debentures and other long term Loans Misc. Expenditure & Losses.
- vii. CONTRIBUTION TO STATE EXCHEQUER Payment made to the State Government in the form of duties, taxes, cess, royalty and dividend etc.

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Upper Kolab Hydro Electric Project



Training Centre, OHPC



Rengali Hydro Electric Project



ODISHA HYDRO POWER CORPORATION LTD.

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