### GOVERNMENT OF INDIA MINISTRY OF POWER

# LOK SABHA STARRED QUESTION NO.336 TO BE ANSWERED ON 03.01.2019

#### **HYDRO ELECTRIC PROJECTS**

\*336. SHRI SANJAY DHOTRE: SHRI BHARTRUHARI MAHTAB:

Will the Minister of POWER be pleased to state:

- (a) the number of Hydro Electric Projects under construction across the country, as on date, State-wise;
- (b) whether a large number of such projects are held up due to financial constraints and other reasons and if so, the details thereof, State and Project-wise along with the time by which such Projects are likely to be completed;
- (c) the details of the cost escalation of such projects due to delay in construction, Project-wise along with the manner in which such escalated cost is likely to be arranged;
- (d) the extent of shortage/loss of generation of power across the country due to delay in construction of the said projects; and
- (e) the steps taken/being taken by the Government for timely completion of such projects along with the achievements thereof?

#### ANSWER

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (e): A Statement is laid on the Table of the House.

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STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO.336 TO BE ANSWERED IN THE LOK SABHA ON 03.01.2019 REGARDING HYDRO ELECTRIC PROJECTS.

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- (a): As on 30<sup>th</sup> November, 2018, there were 37 under construction Hydro Electric Projects (above 25 MW) in the country, aggregating to 12178.50 MW. The details of these projects, State-wise, is given at Annex-I.
- (b): Out of these 37 under construction Hydro Electric Projects, 16 projects, aggregating to 5950 MW, are stalled / held up due to financial constraints and other reasons. The State-wise details of these projects along with the anticipated date of completion of these projects is given at Annex-II.
- (c): The project-wise details of cost overrun of such stalled under construction Hydro Electric projects is given at Annex-III. For financing the cost overrun, equity is being arranged by the developers and debt is raised by developers through loan / commercial borrowings.
- (d): As per calculation made by Central Electricity Authority (CEA), the annual loss of energy generation from these stalled projects is about 18761 Million Units (MUs).
- (e): The action taken by the Government for early completion of these projects are:
  - CEA monitors the progress of under construction power projects through frequent site visits and interaction with the developers and equipment suppliers. CEA holds review meetings periodically with the developers and other stakeholders to identify and resolve issues critical for commissioning of Projects.
  - Regular reviews are also undertaken in Ministry of Power (MoP) to identify the constraints areas and facilitate faster resolution of interministerial and other outstanding issues.
  - In case of CPSU's, the project implementation parameters / milestones are incorporated in the annual MoU signed between respective CPSU's and MoP and the same are monitored during the Quarterly Performance Review (QPR) meetings of CPSU's and other meetings held in MoP/ CEA.
  - The issues related to erection and supply of Electro-Mechanical equipment is expedited in various meetings held in CEA / MoP and other local issues affecting the progress of works are taken up with respective State Governments by the Concerned CPSU / MoP.

The Government of India is pursuing proactively for early resolution of issues with stakeholders.

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ANNEX REFERRED TO IN PART (a) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 336 TO BE ANSWERED IN THE LOK SABHA ON 03.01.2019 REGARDING HYDRO ELECTRIC PROJECTS.

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List of Under Construction Hydro Electric Projects in the Country (above 25 MW) - State wise

(As on 30.11.2018)

| SI. | Name of Scheme             | Sector      | Installed Capacity | Capacity. | Latest           |
|-----|----------------------------|-------------|--------------------|-----------|------------------|
| No. | (Executing Agency)         | 000101      | (No. x MW)         | Under     | Commissioning    |
|     | (                          |             | (,                 | Execution |                  |
|     |                            |             |                    | (MW)      |                  |
|     | Andhra                     | , ,         |                    |           |                  |
| 1   | Polavaram                  | State       | 12x80              | 960.00    | 2021-23 (Mar'23) |
|     | (APGENCO/Irrigation Dept., |             |                    |           |                  |
|     | A.P.)                      |             |                    |           |                  |
|     | Sub-total: A               | ndhra Prado | esh                | 960.00    |                  |
|     | Arunach                    | al Pradesh  |                    |           |                  |
| 2   | Kameng (NEEPCO)            | Central     | 4x150              | 600.00    | 2019-20          |
|     |                            |             |                    |           | (Jun,19)         |
| 3   | Subansiri Lower (NHPC)     | Central     | 8x250              | 2000.00   | 2022-23 *        |
| 4   | ### Gongri (Dirang Energy) | Private     | 2x72               | 144.00    | 2022-23 *        |
|     | Sub-total: Aru             | ınachal Pra | desh               | 2744.00   |                  |
|     | Himach                     | al Pradesh  |                    |           |                  |
| 5   | Parbati St. II (NHPC)      | Central     | 4x200              | 800.00    | 2021-22 (Dec'21) |
| 6   | Uhl-III (BVPCL)            | State       | 3x33.33            | 100.00    | 2018-19 (Mar'19) |
| 7   | Sawra Kuddu (HPPCL)        | State       | 3x37               | 111.00    | 2019-20 (May'19) |
| 8   | Shongtong Karcham          | State       | 3x150              | 450.00    | 2024-25 (Apr'24) |
|     | (HPPCL)                    |             |                    |           |                  |
| 9   | Bajoli Holi (GMR)          | Private     | 3x60               | 180.00    | 2019-20 (Aug'19) |
| 10  | Sorang (HSPCL)             | Private     | 2x50               | 100.00    | 2020-21 *        |
| 11  | Tangnu Romai (TRPG)        | Private     | 2x22               | 44.00     | 2021-22 *        |
| 12  | Tidong-I (Statkraft IPL)   | Private     | 100.00             | 100.00    | 2021-22 (Oct'21) |
|     | Sub-total: Hir             | nachal Prac | desh               | 1885.00   |                  |
|     | Jammu                      | & Kashmir   |                    |           |                  |
| 13  | Pakal Dul (CVPPL)          | Central     | 4x250              | 1000.00   | 2023-24          |
| 14  | Parnai (JKSPDC)            | State       | 3x12.5             | 37.50     | 2021-22 (Mar'22) |
| 15  | Lower Kalnai (JKSPDC)      | State       | 2x24               | 48.00     | 2022-23 *        |
| 16  | # Ratle (RHEPPL)           | Private     | 4x205 + 1x30       | 850.00    | 2023-24 *        |
|     | Sub-total: Jai             | mmu & Kas   | hmir               | 1935.50   |                  |
|     | Ke                         | erala       |                    |           |                  |
| 17  | Pallivasal (KSEB)          | State       | 2x30               | 60.00     | 2020-21 (Dec'20) |
| 18  | Thottiyar (KSEB)           | State       | 1x30+1x10          | 40.00     | 2020-21          |
|     | Sub-tot                    | al: Kerala  |                    | 100.00    |                  |
|     | Madhya                     | a Pradesh   |                    |           |                  |
| 19  | ## Maheshwar (SMHPCL)      | Private     | 10x40              | 400.00    | 2020-21 *        |
|     | Sub-total: M               | adhya Prad  | esh                | 400.00    |                  |
|     | Maha                       |             |                    |           |                  |
| 20  | Koyna Left Bank            | State       | 2x40               | 80.00     | 2022-23 *        |
|     | (WRD,MAH)                  |             |                    |           |                  |
|     | Sub-total:                 | 80.00       |                    |           |                  |
|     | Pu                         |             |                    |           |                  |
| 21  | Shahpurkandi (PSPCL/       | State       | 3x33+3x33+1x8      | 206.00    | 2021-22 (Nov'21) |
|     | Irrigation Deptt., Pb.)    |             |                    |           | _ ` `            |
|     | Sub-tot                    | al: Punjab  |                    | 206.00    |                  |

|    | Sil                              |             |              |          |                    |  |  |
|----|----------------------------------|-------------|--------------|----------|--------------------|--|--|
| 22 | Bhasmey (Gati<br>Infrastructure) | Private     | 3x17         | 51.00    | 2021-22 *          |  |  |
| 23 | Rangit-IV (JAL Power)            | Private     | 3x40         | 120.00   | 2021-22 *          |  |  |
| 24 | Rangit-II (Sikkim Hydro)         | Private     | 2x33         | 66.00    | 2020-21 *          |  |  |
| 25 | Rongnichu (Madhya Bharat)        | Private     | 2x48         | 96.00    | 2019-20 (Mar'20)   |  |  |
| 26 | Teesta St. VI (LANCO)            | Private     | 4x125        | 500.00   | 2021-22 *          |  |  |
| 27 | Panan (Himagiri)                 | Private     | 4x75         | 300.00   | 2022-23 *          |  |  |
|    | Sub-tot                          | al: Sikkim  |              | 1133.00  |                    |  |  |
|    | Tam                              | il Nadu     |              |          |                    |  |  |
| 28 | Kundah Pumped Storage            | State 1x125 |              | 125.00   | 2022-23            |  |  |
|    | Sub-total:                       | Tamil Nad   | u            | 125.00   |                    |  |  |
|    | Uttar                            | akhand      |              |          |                    |  |  |
| 29 | Lata Tapovan (NTPC)              | Central     | 3x57         | 171.00   | 2022-23 *          |  |  |
| 30 | Tapovan Vishnugad (NTPC)         | Central     | 4x130        | 520.00   | 2020-21 (Dec'20)   |  |  |
| 31 | Tehri PSS (THDC)                 | Central     | 4x250        | 1000.00  | 2021-22 * (May'21) |  |  |
| 32 | Vishnugad Pipalkoti (THDC)       | Central     | 4x111        | 444.00   | 2021-22 (Dec'21)   |  |  |
| 33 | Naitwar Mori (SJVNL)             | Central     | 2x30         | 60.00    | 2021-22 (Dec-21)   |  |  |
| 34 | Vyasi (UJVNL)                    | State       | 2x60         | 120.00   | 2019-20 (Mar'20)   |  |  |
| 35 | Phata Byung (LANCO)              | Private     | 2x38         | 76.00    | 2021-22 *          |  |  |
| 36 | Singoli Bhatwari (L&T)           | Private     | 3x33         | 99.00    | 2019-20 (Jun'19)   |  |  |
|    | Sub-total:                       | 2490.00     |              |          |                    |  |  |
|    | West                             | West Bengal |              |          |                    |  |  |
| 37 | Rammam-III (NTPC)                | Central     | 3x40         | 120.00   | 2021-22 (Feb'22)   |  |  |
|    | Sub-total:                       | West Beng   | al           | 120.00   |                    |  |  |
|    |                                  |             | Grand Total: | 12178.50 |                    |  |  |

<sup>\*</sup> Subject to restart of works

# Govt. of J&K, PDD have terminated PPA on 09.02.2017 and directed JKSPDC to take over the project.

## PFC as lead lender have acquired majority equity i.e. 51% in the SMHPCL w.e.f.  $1^{st}$  June, 2016. Matter Sub-judice.

### State Govt. terminated the agreement with developer for execution of project.

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ANNEX REFERRED TO IN PART (b) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 336 TO BE ANSWERED IN THE LOK SABHA ON 03.01.2019 REGARDING HYDRO ELECTRIC PROJECTS.

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#### **Stalled Under Construction Hydro Electric Projects**

(As on 30.11.2018)

|            |  |         |  | (As on 30.11.2018)                |
|------------|--|---------|--|-----------------------------------|
| SI.<br>No. | Name of Project/<br>Executing Agency /<br>Capacity (MW)                        | Sector  | Reasons for stalling of construction   | Likely Commissioning              |
|            | Arunachal Pradesh  | / Assam |  |                                   |
| 1          | Subansiri Lower<br>NHPC Limited<br>8x250=2000 MW                               | Central | -Since 16.12.2011 works stopped due to agitation by various activists, fearing dam safety and downstream impacts of damCase in Hon'ble NGT, Kolkata bench.   | 4 years after restart of works.   |
|            | Arunachal Prad   | lesh    |  |                                   |
| 2          | Gongri<br>Dirang Energy Pvt.<br>Ltd.<br>2x72=144 MW                            | Private | Works stopped since 2 <sup>nd</sup> week of April, 2016 due to fund flow problem with promoter / lenders. Works restarted in July-2016 but again stalled since October, 2016 due to fund constraints with developer. | 3½ years after re-start of works. |
|            | Himachal Prad  |         |  |                                   |
| 3          | Tangnu Romai<br>Tangnu Romai Power<br>Generation<br>2x22=44 MW                 | Private | The developer informed that the project suffered due to very poor geology in HRT, due to which project got delayed and cost had increased. Further Works stalled since January, 2015 due to fund constraints.        |                                   |
| 4          | Sorang<br>Himachal Sorang<br>Power Ltd.<br>2x50=100 MW                         | Private | Works are stalled since 18.11.2015 due to rupture in the surface penstock pipe when unit#2 was under trial run.  | _                                 |
| <u> </u>   | Jammu & Kash   |         |  | <u> </u>                          |
| 5          | Lower Kalnai<br>JKSPDC<br>2x24=48 MW   | State   | Works on all fronts at Dam and Power House site are stalled since 24.01.2018 due to payment dispute with subcontractors and due to non-settlement of extension of time of the contract by the JKSPDC.                | works.                            |
| 6          | Ratle<br>GVK Ratle<br>Hydro Electric Project<br>Pvt. Ltd.<br>4x205+1x30=850 MW | Private | There is no progress since 11th July, 2014. (R&R issues, Local issues, Law & order problem, Indus Water Treaty etc.)   | 5 years after restart of works.   |

|    | Madhya Prade  | sh      |  |  |
|----|---|---------|--|--|
| 7  | Maheshwar<br>Shree Maheshwar<br>Hydel Power<br>Corporation Limited<br>10x40= 400 MW | Private | Works suspended since Nov-11 due to cash flow problem with developer.  | 1-½ year after restart<br>of works.            |
|    | Maharashtra   | a       |  |  |
| 8  | Koyna Left Bank PSS<br>WRD, Govt. of<br>Maharashtra<br>2x40=80 MW                   | State   | - Project stalled since July, 2015. The current expenditure on the project has already reached to almost original administrative approved cost level hence expenditure on the project is stopped and project work is processing at very slow rate. Revised cost is under approval by State Govt. | 4 years after restart<br>of works.             |
|    | Sikkim  |         |  |  |
| 9  | Teesta VI<br>Lanco Teesta Hydro<br>Power Ltd.<br>4x125=500 MW                       | Private | There is almost no progress since April, 2014. (Funds Constraints)   |  |
| 10 | Rangit-IV Jal Power Corp. Ltd. (JPCL) 3x40= 120 MW                                  | Private | Works stopped since Oct-13 due to funds constraints with developer.  | _  |
| 11 | Panan<br>Himagiri Hydro<br>Energy Pvt Ltd.<br>4x75 = 300 MW                         | Private | Major Civil Works could not<br>start since April, 2014 for<br>want of NGT Clearance.<br>NOC from NWLB.   |  |
| 12 | Rangit II<br>Sikkim Hydro Pvt.<br>Ltd.<br>2x33=66 MW                                | Private | Works are stalled since<br>December, 2017 due to funds<br>constraints with developer   | $2\frac{1}{2}$ years after the start of works. |
| 13 | Bhasmey Gati Infrastructure 2x25.5=51 MW  | Private | Works are stalled since<br>Sept., 2016 due to funds<br>constraints with developer  | 3 years after re-start of works.               |
| 14 | Uttarakhand Lata Tapovan, NTPC Limited 3x57=171 MW                                  | Central | Construction work stopped vide Hon'ble Supreme Court order dated 7.5.14.   | _  |
| 15 | Tehri PSS,<br>THDC Limited<br>4x250=1000 MW   | Central | Construction work stopped since April, 2018 due to funds constraints with Contractor (HCC).  | of works.                                      |
| 16 | Phata Byung<br>Lanco<br>2x38=76 MW  | Private | Works stalled since July, 2017 due to Financial crunch with the contractor / developer.  | _  |

Total = 16 Nos. (5950 MW)

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ANNEX REFERRED TO IN PART (c) OF THE STATEMENT LAID IN REPLY TO STARRED QUESTION NO. 336 TO BE ANSWERED IN THE LOK SABHA ON 03.01.2019 REGARDING HYDRO ELECTRIC PROJECTS.

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## DETAILS OF STALLED UNDER CONSTRUCTION HYDRO ELECTRIC PROJECTS (ABOVE 25 MW) HAVING TIME/COST OVERRUN

(As on 30.11.2018)

| SI.<br>No | Project Name /<br>Installed Capacity | Sector  | Unit<br>No. | Capacity<br>(MW) | Original<br>Commis- | Anticipated Commis- | Original<br>Cost   | Latest Cost/<br>Anticipated     |
|-----------|--------------------------------------|---------|-------------|------------------|---------------------|---------------------|--------------------|---------------------------------|
|           | /<br>Executing Agency                |         |             |                  | sioning<br>Schedule | sioning<br>Schedule | (Rs. in<br>Crores) | Completion Cost (Rs. in Crores) |
| 1         | 2                                    | 3       | 4           | 5                | 6                   | 7                   | 9                  | 10                              |
|           | Arunachal                            |         |             |                  |                     |                     |                    |                                 |
|           | Pradesh / Assam                      |         |             |                  |                     |                     |                    |                                 |
| 1         | Subansiri Lower                      | Central | 1           | 250              | 2009-11             | 2022-23             | 6285.33            | 18559.49                        |
|           | (8x250 = 2000                        |         | 2           | 250              | 2009-11             | 2022-23             | (12/02)            | (04/17)                         |
|           | MW)                                  |         | 3           | 250              | 2009-11             | 2022-23             |                    |                                 |
|           | NHPC                                 |         | 4           | 250              | 2009-11             | 2022-23             |                    |                                 |
|           |                                      |         | 5           | 250              | 2009-11             | 2022-23             |                    |                                 |
|           |                                      |         | 6           | 250              | 2009-11             | 2022-23             |                    |                                 |
|           |                                      |         | 7           | 250              | 2009-11             | 2022-23             |                    |                                 |
|           |                                      |         | 8           | 250              | 2009-11             | 2022-23             |                    |                                 |
|           |                                      |         |             |                  |                     | (subject            |                    |                                 |
|           |                                      |         |             |                  |                     | to re-start of      |                    |                                 |
|           |                                      |         |             |                  |                     | works,              |                    |                                 |
|           |                                      |         |             |                  |                     | 4 years)            |                    |                                 |
|           | Arunachal                            |         |             |                  |                     |                     |                    |                                 |
|           | Pradesh                              |         |             |                  |                     |                     |                    |                                 |
| 2         | Gongri                               | Private | 1           | 72               | 2016-17             | 2022-23             | 1436.27            | 1535.91                         |
|           | 2x72= 144 MW                         |         | 2           | 72               | 2016-17             | 2022-23             | (05/2012)          | (10/2016)                       |
|           | Dirang Energy                        |         |             |                  |                     | (subject            |                    |                                 |
|           | (P)Ltd                               |         |             |                  |                     | to re-start of      |                    |                                 |
|           |                                      |         |             |                  |                     | works, 3.5          |                    |                                 |
|           |                                      |         |             |                  |                     | years)              |                    |                                 |
|           | Himachal Pradesh                     |         |             |                  |                     |                     |                    |                                 |
| 3         | Tangnu Romai-I                       | Private | 1           | 22               | 2014-15             | 2021-22             | 255.00             | 562.97                          |
|           | (2x22 = 44 MW)                       |         | 2           | 22               | 2014-15             | 2021-22             | (01/2007)          | (01/2017)                       |
|           | TRPGPL                               |         |             |                  |                     | (subject            |                    |                                 |
|           |                                      |         |             |                  |                     | to re-start of      |                    |                                 |
|           |                                      |         |             |                  |                     | works, 3            |                    |                                 |
|           |                                      |         |             |                  |                     | years)              |                    |                                 |
| 4         | Sorang                               | Private | 1           | 50               | 2011-12             | 2020-21             | 586.00             | 586.00                          |
|           | (2x50 = 100 MW),                     |         | 2           | 50               | 2011-12             | 2020-21             | (04/2005)          | (Under                          |
|           | HSPPL                                |         |             |                  |                     | (subject            |                    | revision)                       |
|           |                                      |         |             |                  |                     | to re-start of      |                    |                                 |
|           |                                      |         |             |                  |                     | works, 2            |                    |                                 |
|           |                                      |         |             |                  |                     | years)              |                    |                                 |

|    | Jammu & Kashmir              |         |    |     |         |                     |           |           |
|----|------------------------------|---------|----|-----|---------|---------------------|-----------|-----------|
| 5  | Lower Kalnai                 | State   | 1  | 24  | 2017-18 | 2022-23             | 576.87    | 576.87    |
| 9  | 2x24= 48 MW                  | State   | 2  | 24  | 2017-18 | 2022-23             | (12/2012) | (12/2012) |
|    | JKSPDC                       |         | 2  | 24  | 2017-10 | (subject            | (12/2012) | (12/2012) |
|    |                              |         |    |     |         | to re-start of      |           |           |
|    |                              |         |    |     |         |                     |           |           |
|    |                              |         |    |     |         | works, 4            |           |           |
| _  | <b>-</b>                     |         | _  |     | 0047.40 | years)              |           |           |
| _  | Ratle                        | Private | 1  | 205 | 2017-18 | 2023-24             | 5517.02   | 6257.00   |
|    | (4x205+1x30) =               |         | 2  | 205 | 2017-18 | 2023-24             | (03/2012) | (09/2013) |
|    | 850 MW                       |         | 3  | 205 | 2017-18 | 2023-24             |           |           |
|    | Ratle HEP Pvt .Ltd.          |         | 4  | 205 | 2017-18 | 2023-24             |           |           |
|    |                              |         | 5  | 30  | 2017-18 | 2023-24             |           |           |
|    |                              |         |    |     |         | (subject            |           |           |
|    |                              |         |    |     |         | to re-start of      |           |           |
|    |                              |         |    |     |         | works, 5            |           |           |
|    |                              |         |    |     |         | years)              |           |           |
|    | Maharashtra                  |         |    |     |         |                     |           |           |
| 7  | Koyna Left Bank              | State   | 1  | 40  | 2014-15 | 2022-23             | 245.02    | 1494.94   |
|    | PSS                          |         | 2  | 40  | 2014-15 | 2022-23             | (1999)    | (2014)    |
|    | 2x40 = 80 MW                 |         |    |     |         | (subject to         |           |           |
|    | WRD, Maha                    |         |    |     |         | re- start of        |           |           |
|    |                              |         |    |     |         | works, 4            |           |           |
|    |                              |         |    |     |         | years)              |           |           |
|    | Madhya Pradesh               |         |    |     |         |                     |           |           |
| 8  | Maheshwar                    | Private | 1  | 40  | 2001-02 | 2020-21             | 1569.27   | 8121.00   |
|    | (10x40 = 400 MW)             |         | 2  | 40  | 2001-02 | (subject            | (96-97)   | (2016-17) |
|    | SMHPCL                       |         | 3  | 40  | 2001-02 | to re-start of      |           |           |
|    |                              |         | 4  | 40  | 2001-02 | works, 1.5          |           |           |
|    |                              |         | 5  | 40  | 2001-02 | years)              |           |           |
|    |                              |         | 6  | 40  | 2001-02 |                     |           |           |
|    |                              |         | 7  | 40  | 2001-02 |                     |           |           |
|    |                              |         | 8  | 40  | 2001-02 |                     |           |           |
|    |                              |         | 9  | 40  | 2001-02 |                     |           |           |
|    |                              |         | 10 | 40  | 2001-02 |                     |           |           |
| i  |                              |         |    |     |         |                     |           |           |
|    | Sikkim                       |         |    |     |         |                     |           |           |
| 9  | Teesta Stage VI              | Private | 1  | 125 | 2012-13 | 2021-22             | 3283.08   | 5748.00   |
|    | (4x125 = 500 MW)             |         | 2  | 125 | 2012-13 | 2021-22             | (2008)    | (07/2018) |
|    | Lanco Energy Pvt.            |         | 3  | 125 | 2012-13 | 2021-22             |           |           |
|    | Ltd.                         |         | 4  | 125 | 2012-13 | 2021-22             |           |           |
|    |                              |         |    |     |         | (subject            |           |           |
|    |                              |         |    |     |         | to re-start of      |           |           |
|    |                              |         |    |     |         | works, 3            |           |           |
|    |                              |         |    |     |         | years)              |           |           |
| 10 | Rangit-IV                    | Private | 1  | 40  | 2011-12 | 2021-22             | 726.17    | 1692.60   |
|    |                              |         | 2  | 40  | 2011-12 | 2021-22             | (2011-12) | (06/2016) |
|    | HEProject                    |         |    |     |         | -                   |           |           |
|    | HEProject<br>(3X40 = 120 MW) |         | 3  | 40  | 2011-12 | 2021-22             |           |           |
|    | _                            |         | 3  | 40  | 2011-12 | 2021-22<br>(subject |           |           |
|    | (3X40 = 120 MW)              |         | 3  | 40  | 2011-12 |                     |           |           |
|    | (3X40 = 120 MW)              |         | 3  | 40  | 2011-12 | (subject            |           |           |

| 11 | Panan               | Private | 1    | 75   | 2018-19  | 2022-23        | 1833.05   | 2516.00   |
|----|---------------------|---------|------|------|----------|----------------|-----------|-----------|
|    | 4x75= 300 MW        |         | 2    | 75   | 2018-19  | 2022-23        | (2009)    | (09/2016) |
|    | Himagiri Hydro      |         | 3    | 75   | 2018-19  | 2022-23        |           |           |
|    | Energy Pvt. Ltd.    |         | 4    | 75   | 2018-19  | 2022-23        |           |           |
|    |                     |         |      |      |          | (subject to    |           |           |
|    |                     |         |      |      |          | active start   |           |           |
|    |                     |         |      |      |          | of works, 4    |           |           |
|    |                     |         |      |      |          | years)         |           |           |
| 12 | Bhasmey             | Private | 1    | 25.5 | 2012-13  | 2021-22        | 408.50    | 690.30    |
|    | 2x25.5=51 MW        |         | 2    | 25.5 | 2012-13  | 2021-22        | (2012-13) |           |
|    | Gati Infrastructure |         |      |      |          | (subject       |           |           |
|    |                     |         |      |      |          | to re-start of |           |           |
|    |                     |         |      |      |          | works, 3       |           |           |
|    |                     |         |      |      |          | years)         |           |           |
| 13 | Rangit-II           | Private | 1    | 33   | 2015-16  | 2020-21        | 496.44    | 496.44    |
|    | 2x33=66 MW          |         | 2    | 33   | 2015-16  | 2020-21        |           | (Under    |
|    | Sikkim Hydro        |         |      |      |          | (subject       |           | revision) |
|    | Power Ltd.          |         |      |      |          | to re-start of |           |           |
|    |                     |         |      |      |          | works, 2.5     |           |           |
|    |                     |         |      |      |          | years)         |           |           |
|    | Uttarakhand         |         |      |      |          |                |           |           |
| 14 | Lata Tapovan        | Central | 1    | 57   | 2017-18  | 2022-23        | 1527.00   | 1801.07   |
|    | (3x57 = 171 MW)     |         | 2    | 57   | 2017-18  | 2022-23        | (07/2012) | (Under    |
|    | NTPC                |         | 3    | 57   | 2017-18  | 2022-23        |           | revision) |
|    |                     |         |      |      | (Aug'17) | (subject       |           |           |
|    |                     |         |      |      |          | to re-start of |           |           |
|    |                     |         |      |      |          | works, 4       |           |           |
|    |                     |         |      |      |          | years)         |           |           |
| 15 | Tehri PSS           | Central | 1    | 250  | 2010-11  | 2021-22        | 1657.60   | 3939.11   |
|    | 4x250=1000 MW       |         | 2    | 250  | 2010-11  | 2021-22        | (12/2005) |           |
|    | THDC                |         | 3    | 250  | 2010-11  | 2021-22        |           |           |
|    |                     |         | 4    | 250  | 2010-11  | 2021-22        |           |           |
|    |                     |         |      |      |          | (subject       |           |           |
|    |                     |         |      |      |          | to re-start of |           |           |
|    |                     |         |      |      |          | works )        |           |           |
| 16 | Phata Byung         | Private | 1    | 38   | 2012-13  | 2021-22        | 520.00    | 1225.53   |
|    | 2x38=76 MW          |         | 2    | 38   | 2012-13  | 2021-22        | (2013-14) |           |
|    | Lanco               |         |      |      |          | (subject       |           |           |
|    |                     |         |      |      |          | to re-start of |           |           |
|    |                     |         |      |      |          | works, 3       |           |           |
|    |                     |         |      |      |          | years)         |           |           |
|    |                     |         | Tota | al   |          |                | 26922.62  | 55803.27  |

Note: Latest Cost/ Anticipated Cost of the project is as per data submitted by the project authorities to CEA.

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