



సదా చుసేవలో...

ANDHRA PRADESH CENTRAL POWER DISTRIBUTION CORPORATION LIMITED
Dr. Y.S.R Vidyut Soudha, Corporate office, ITI Road, Vijayawada-520 008

Reg. post

From:
The Chief General Manager,
RAC, Corporate Office,
APCPDCL,
Vijayawada.

To:
The Secretary, APERC
#11-4-660, 4TH Floor,
Singareni Bhavan,
Red Hills, Khairathabad,
Hyderabad – 500004.

Lr.No.CGM/RAC/GM/PP & RAC/F.No/D.No. 1012/23, Dt. 24-11-2023.

Sir,

Sub: Procurement of power from M/s. NHPC Ltd for upcoming Hydel projects situated in various states of India – requested consent to procure 20% of available capacity offered by 5 no's NHPC plants- Reg.

Ref: 1. NH/Comml./new projects/2023/142 dated 31.08.2023.
2. NH/Comml./CVPPPL/2022/1052 dated 05.09.2022.
3. NH/Comml./Newproject/Ratle/2022/140 dated 18.02.2022.
4. NH/Comml./Newproject/2021/143 dated 07.10.2021.

It is to submit that 10 no. of proposals received from M/s NHPC for various upcoming hydel power plants present across the states of India and requested consent for procurement of power through long term PPA basis. The summary of offers received for the plants is enclosed in separate sheet.

The salient features of these projects include:

- Useful life of the project being 40 years and the extension of life for 25 years after completion of useful life.
- Waiver off ISTS charges applicable to new hydro projects that sign PPA by June'2025.
- Compliance of HPO obligation.
- Integration of large scale upcoming renewable power.
- Supply of 2-3 hours of peak power from the projects having pondage during winter season.
- Tariff shall be determined by CERC and allocation is done by Ministry of Power, GoI based on consent received from states.

After thorough examination of the power deficit situation projected in the resource plan upto the period FY 2033-34, it is tentatively decided to request for 20% of the available capacity from the following 5 Nos. projects.



Sl. No	Projects	Inst. Capacity(MW)	Project Ownership	Available power for sale(Mw)	Levelized Tariff(Rs /kwh)	Status of project	Expected commissioning
1.	Teesta VI	500	LTHPL(wholly owned subsidiary of NHPC)	435	4.02	Under construction	July'2025
2.	Rangit IV	120	JPCL(wholly owned subsidiary of NHPC)	104	4.37	Under construction	Aug'2024
3.	Ratle	850	RHPCL(joint venture of NHPC Ltd & JKSPDC)	377	3.92	Under construction	Feb'2026
4.	Pakaldul	1000	CVPPL(joint venture of NHPC Ltd & JKSPDC)	444	4.28	Under construction	July'2025
5.	Kwar	540	CVPPL(joint venture of NHPC Ltd & JKSPDC)	240	4.44	Under construction	Nov'2026

In this regard Hon'ble commission is requested to accord approval to APDISCOMs to seek allocation for 20% of available capacity in the above projects from MoP.

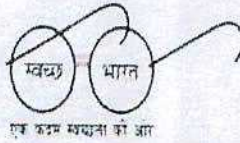
In due course of time consent for procuring power from 5Nos. hydel station namely DUGAR, DIBANG, PARBATI II, KIRU, SAWALKOT shall be sought.

Yours faithfully,


Chief General Manager/RAC
APCPDCL :: Vijayawada

SUMMARY OF DETAILS OF UPCOMING HYDRO PROJECTS OF NHPC LIMITED

Sl. No	Projects	Installed Capacity (MW)	Project Ownership	Annual design Energy	Free Power (12%+ Ladf -1%)	Available For Sale (MW)	Levelling Tariff (Rs/Kwh)	Useful Life Of Project	Eligibility Of Hpo Benefits	Status Of Project	Expected Commissioning
1	TEESTA VI	500	LTHPL (wholly owned subsidiary of NHPC)	2400	65	435	4.07	40 years	Yes	Under Construction	JULY'2025
2	RANGIT IV	120	JPCL (wholly owned subsidiary of NHPC)	507.88	16	104	4.37	40 years	Yes	Under Construction	AUG'2024
3	RATLE	850	RHPCL (Joint Venture of NHPC Limited & JKSPDC)	3136.76	111	377 (NHPC is pursuing for 51% (excl., 13%) -377.14 MW)	3.92	40 years	Yes	Under Construction	FEB'2026
4	PAKALDUL	1000	CVPPPL (Joint Venture of NHPC Limited & JKSPDC)	3330.18	130	444	4.28	40 years	Yes	Under Construction	JULY'2025
5	KWAR	540	CVPPPL (Joint Venture of NHPC Limited & JKSPDC)	1975.54	70	240	4.44	40 years	Yes	Under Construction	NOV'2026
6	DUGAR	500	NHPC Standalone	1759.85	65	435	4.46	40 years	Yes	PIB/CCEA sanction under process	Mar'2030
7	DIBANG	2880	NHPC Standalone	11223	374	2506	4.46	40 years	Likely to be eligible	Under Construction	FEB'2032
8	PARBATI II	800	NHPC Standalone	3125	104	696	6.14	40 years	Yes	Under Construction	JUN'2024
9	KIRU	624	CVPPPL (Joint Venture of NHPC Limited & JKSPDC)	2272	81	-	4.64	40 years	Yes	Under Construction	MAR'2026
10	SAWALKOT	1856	NHPC Standalone	7995	241	1615	5.62	40 years	Likely to be eligible (presently HPO trajectory upto 2030)	PIB/CCEA sanction under process	APR'2032 (96 months from GOI investment approval, likely date of CCEA, GOI Apr'24)



Ref. No. NH/Comml./CVPPPL/2022/1052

Date: 05.09.2022

The Chairman cum Managing Director,
Transmission Corporation of Andhra Pradesh Limited,
Vidyut Soudha, Gunadala, Eluru,
Vijawada, Andhra Pradesh- 520004.

Sub: Consent for Procurement of Power from 1000 MW Pakaldul HEP & 540 MW Kwar HEP located in UT of J&K being developed by CVPPPL (JV of NHPC Ltd).

Sir,

NHPC is a premier Hydro Power organization (Mini-Ratna Category-I CPSU) under Ministry of Power, Govt having installed capacity of 7071 MW comprising of Hydro, Solar & Wind Power Projects. NHPC has proven track record & successful accomplishment of last 46 years' experience from concept to commissioning/ operation of Hydro-electric projects.

NHPC limited, has formed a joint venture company, "Chenab Valley Power Projects Private Limited (CVPPPL)" for the implementation of following Hydroelectric Project. The JVC has been incorporated with NHPC and Jammu & Kashmir State Power Development Corporation Ltd (JKSPDC) holding equity share of 51% and 49% respectively. NHPC is looking up for prospective buyers for tie-up the power from following projects on Long term basis, which are under construction stage. Major highlights of both projects are as under:

Description	Pakaldul HE Project	Kwar HE Project
Installed Capacity	1000 MW (4 x 250MW)	540 MW (4 x 135 MW)
Location & River	Kishtwar, J&K, Marusudar River	Kishtwar, J&K, Chenab River
Type of Project	ROR having 3.00 hrs peaking	ROR having 2.7 hrs peaking
Expected Commissioning	July'2025	November'2026
Free Power & LADF % to Home state	13%	13%
Levellised Tariff	₹ 4.28/unit	₹ 4.44 /unit
Annual Design Energy	3330.22 MUs	1975.55 MUs
Transmission connectivity	ISTS connectivity	
Useful life	40 years	



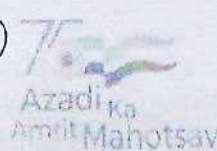
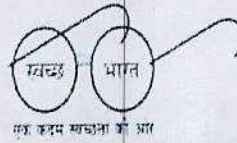
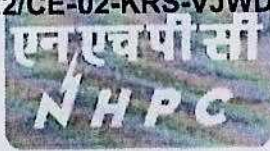
पंजीकृत कार्यालय: एनएचपीसी ऑफिस कॉम्प्लेक्स, सेक्टर-33, फरीदाबाद, हरियाणा-121003

Regd. Office: NHPC OFFICE COMPLEX, SECTOR-33, FAIDABAD-121003, HARYANA

CIN-L4010HR1975GOI032564; Website: www.nhpcindia.com

Email: webmaster@nhpc.nic.in EPABX No.: 0129-2588110/2588500

6569816/2022/CE-02-KRS-VJWD



Actual tariff	Tariff/Annual Fixed Cost (AFC) shall be determined by CERC under section 62 of Electricity Act' 2003.
Allocation of Power among States/Discom(s)	Allocation is to be done by Ministry of Power, GOI based on consent received from States/Discom(s).

Further, hydro Power is necessary on account of following benefits:

- ❖ Integration of large scale upcoming renewable power in the grid.
- ❖ Hydro projects have longer life and provide cheaper electricity, as there is no fuel cost and the recurring cost involved in generation, O&M expenditure is lower in comparison to other sources of energy
- ❖ Generation of energy beyond Design energy (secondary Energy @Rs 1.20/kWh) reduces effective tariff of the project.
- ❖ Hydro project has a specific tariff structure, where the tariff decreases over the life of the plant. Tariff becomes quite competitive & benefit through long term PPA by DISCOMs.
- ❖ Extension of life for 25 years after completion of useful life.
- ❖ **Compliance of HPO Obligation:** As per Ministry of Power, Government of India notification /order dated 8th March'2019 , 29th January'2021 & 22nd July'2022 on "Measures to promote Hydro power sector" the projects commissioned after 08.03.2019 are eligible for HPO. The effective tariff of above project is likely to reduce further after considering benefits of HPO and other measures notified by MoP, Gol.

In view of above, it is requested to kindly provide consent of your State/Discom(s) for procurement of Hydro Power from 1000 MW Pakaldul HEP & 540 MW Kwar HE Project through Long Term PPA basis. NHPC shall consider the requirement of Discom(s) /States on first cum first serve basis. Subsequently, NHPC shall approach MoP, Gol for allocation of power amongst Discom(s)/States.

Thanking you,

Yours sincerely,

(Onkar Yadav)

General Manager (Comml.)

पंजीकृत कार्यालय: एनएचपीसी ऑफिस कॉम्प्लेक्स, सेक्टर-33, फ़रीदाबाद, हरियाणा-121003

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Email : webmaster@nhpc.nic.in EPABX No.: 0129-2588110/2588500



NH/Comml/New Project/2021/ //43

Date: 07.10.2021

Chairman cum Managing Director,
Transmission Corporation of Andhra Pradesh Limited,
Vidyut Soudha, Gunadala, Eluru,
Viajawada, Andhra Pradesh- 520004.
Email: cmd@aptransco.co.in; ce.coml@aptransco.co.in

Sub: Consent for procurement of power from upcoming Hydro Power Projects of NHPC namely 500 MW Teesta-VI HE Project & 120 MW Rangit-IV HE Project.

Sir,

- NHPC is a premier Hydro Power organization (Mini Ratna category-I CPSU) under Ministry of Power, GOI having installed capacity of 7071 MW comprising Hydro, Solar & Wind Power Projects. It has proven track record & successful accomplishment of last 46 years' experience from concept to commissioning of hydroelectric projects and their operation across the country. Company is supplying power to our 31 nos. DISCOM(s)/Beneficiary States through long term PPAs without any dispute.
- NHPC is looking up for prospective buyers for tying up the power from our **Teesta-VI HE project (4x125 MW) & Rangit-IV HE project (3x40 MW)** on Long term basis, which are under construction stage. Major highlights of both projects is as under:

Description	Teesta-VI	Rangit IV
Installed Capacity	500 MW	120 MW
Location	South Sikkim	West Sikkim
Type of Project	Run of River (ROR) with peaking of 2.3 hours during lean season.	Run of River (ROR) with Pondage for peaking of 3 hours during lean season.
Expected commissioning	March' 2024.	May' 2024
Levellised Tariff	Rs 4.07/kWh.	Rs 4.37/kWh.
First Year Tariff	Rs 4.59/kWh	Rs 4.29/kWh
Annual Design Energy	2400 MU.	507.88 MU.
Useful life	40 years	
Actual tariff	Annual Fixed Cost (AFC) shall be determined by Hon'ble CERC under section 62 of Electricity Act' 2003.	

पंजीकृत कार्यालय: एन एच पी सी ऑफिस कॉम्प्लेक्स, सेक्टर-33, फरीदाबाद, हरियाणा -121003

Regd. Office: NHPC OFFICE COMPLEX, SECTOR-33, FAIDABAD-121003, HARYANA

CIN-L4010HR1975GOI032564; Website: www.nhpcindia.com

Email: webmaster@nhpc.nic.in EPABX No.: 0129-2588110/2588500

5098004/2021/CE-02-KRS-VJWD



Continuation Sheet No -2

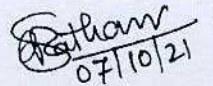
3. Further, as per "Measures to promote hydro power sector" notified by Ministry of Power on 8th March' 2019, all large hydro projects commissioned after 08.03.2019 shall be covered under Hydro Purchase Obligation (HPO) and as such Teesta VI & Rangit IV HE Projects will also qualify for the same. As per MOP order dated 29th January' 2021 *"The Hydro Energy Certificate mechanism under Regulation to be developed by CERC to facilitate compliance of HPO Obligation, would have a capping price of Rs 5.50/unit of energy w.e.f 8th March'2019 to 31st March, 2021 and with annual escalation @5% thereafter for purposes of ensuring HPO compliance."*

Also, it is to mention that presently, Average Power Purchase Cost (APPC) at national level for FY 2020-21 is Rs 3.85/kWh as per CERC order dated 31.03.2021. Hence, the tariff of above Projects is likely to reduce after considering benefits of HPO and other measures notified by Ministry of Power vide orders dated 08.03.2019 & 29.01.2021 and may be at par with the existing APPC.

In view of above, your good self is requested to provide consent of your State/ Discom(s) for procurement of Hydro Power from 500 MW Teesta-VI HE project & 120 MW Rangit-IV H E projects through Long term PPA basis. NHPC shall consider the requirement of Discom(s) on first cum first serve basis. Thereafter, NHPC shall approach MoP, Govt. of India for allocation of power to Discom(s).

Thanking You,

Your's Sincerely,


07/10/21

(S.P. Rathour)

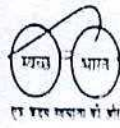
General Manager (Commercial)

Commercial Division

Email: nhpc-pt@nhpc.nic.in



एनएचपीसी
NHPC



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Azadi Ka
Amrit Mahotsav

एनएचपीसी लिमिटेड

(भारत सरकार का उद्योग)

NHPC Limited

(A Govt. of India Enterprise)

Ref. No. NH/Comml./new project/Rattle/2022/140

Date: 18.02.2022

The Chairman cum Managing Director,
Transmission Corporation of Andhra Pradesh Limited,
Vidyut Soudha, Gunadala, Eluru,
Viajawada, Andhra Pradesh- 520004.
Email: cmd@aptransco.co.in; ce.coml@aptransco.co.in

THE/TECH.
GM/Comml.

COM/Comml.

Sub.: Consent for Procurement of Power from upcoming 850 MW Rattle HE Project developed Rattle Hydroelectric Power Corporation Limited (Joint Venture of NHPC Limited & JKSPDC)

Sir,

08 MAR 2022

NHPC is a premier Hydro Power organization (Mini-Ratna Category-I CPSU) under Ministry of Power, GoI having installed capacity of 7071 MW comprising of Hydro, Solar & Wind Power Projects. Company has proven track record & successful accomplishment of last 46 years' experience from concept to commissioning/ operation of Hydro-electric projects. Company is supplying power to our 31 nos. DISCOM(s) / Beneficiary states through long term PPAs.

NHPC limited, has formed a joint venture company, "Rattle Hydroelectric Power Corporation Limited" for the implementation of 850 MW Rattle Hydroelectric Project. The JVC has been incorporated on 01.06.2021 with NHPC and Jammu & Kashmir State Power Development Corporation Ltd (JKSPDC) holding equity share of 51% and 49% respectively. Ministry of Power, GoI on 11.02.2021 has conveyed investment sanction (copy enclosed) for construction of 850 MW Rattle HE Project at an estimated cost of Rs. 5281.94 Crore (at Nov.2018 price level).

As per Promoters Agreement signed, the Govt. of UT of Jammu & Kashmir is entitled to have first right of refusal for purchase of Power from JVC in proportion to the share of JKSPDC. Accordingly, 377.14 MW (51% share after excluding 13% free power/LADF to home state) is available for purchase by other states/DISCOM(s). Moreover, in future if Govt. of UT- J&K refuses to purchase JKSPDC share, the available quantum may also increase.

NHPC is looking up for prospective buyers for tying up the power from Rattle HE Project on

Long term basis. Some of major highlights of project are as under:

Director (Grid Trans. & Mgmt.)
APTRANSCO

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04 MAR 2022

Regd. Office: NHPC OFFICE COMPLEX, SECTOR-33, PANDABAD-121003, HARYANA

CIN-L4D10HR1975GC1032564; Website: www.nhpcindia.com

Email: webmaster@nhpc.co.in EPAN No.: 1202/2010/2588500

CE/SLDC
CE/TECOM
CE/Const-I
CE/Plg., PSA Comm
Chief IT & D.O
CE/Vijawada Zone
P.S.

CE/Trans.
CE/Civil
CE/Const-II
CGMH
Addl. Secy
CE/Kadapa Zone
CE/Visakhapatnam Zone

Director (Grid, Trans. & Mgmt.)

O/o. Chief Engineer
Power Systems, Planning & Design

APTRANSCO

596

3E/Plg & Design
3E/Tech

3E/PS
3E/PS, Plg & Design

20/03/22

596

APPC

Submitted to C&M/PO

5628395/2022/CE-02-KRS-VJWD



Azadi Ka
Amrit Mahotsav

एनएचपीसी लिमिटेड
(भारत सरकार का उद्योग)
NHPC Limited
(A Govt. of India Enterprise)

Description	Rattle HE Project
Installed Capacity	850MW (4x205 MW + 1x 30MW)
Location	Kishtwar, Union Territory of J&K
Type of Project	Run of River Scheme located on River Chenab
Actual tariff	Tariff / Annual Fixed Cost (AFC) shall be determined by CERC under section 62 of Electricity Act' 2003.
Allocation of Power among States/ Discom(s)	Allocation is to be done by Ministry of Power, GOI based on consent received from States/Discom(s).
Free Power & LADF to Home state	13%
Levelling Tariff	₹ 3.92/unit
Annual Design Energy	3136.76 MU
Expected Commissioning	Feb' 2026
Useful life	40 years

Rattle HE Project is eligible for HPO and other benefits as per Ministry of Power, Government of India notification /order dated 08th March'2019 & 29th January'2021 on "Measures to promote Hydro power sector". The effective tariff of above project is likely to reduce further after considering benefits of HPO and other measures notified by MoP, Gol.

In view of above, your goodself is requested to kindly provide consent of your State/ Discom(s) for procurement of Hydro Power from **850 MW Rattle HE project** through Long Term PPA basis. NHPC shall consider the requirement of Discom(s) /States on first cum first serve basis. Subsequently, NHPC shall approach MoP, Gol for allocation of power amongst Discom(s)/States.

Thanking you,

Yours sincerely,

Ajay Shrivastava
18/2/22

(Ajay Shrivastava)
General Manager (Comml.)
Commercial Division
Email: nhpc-pt@nhpc.nic.in



Government of India

No.2/8/2018-NHPC
Government of India
Ministry of Power

Shram Shakti Bhawan, Rafi Marg
New Delhi, Dated 11/02/2021

The Chairman & Managing Director
NHPC Limited
Sector-33, Faridabad

Sub: Investment approval for construction of 850 MW Ratle Hydro Electric (HE) project at a cost of Rs.5281.94 Crore (Nov' 18 PL)through the formation of Joint Venture Company (JVC) between NHPC and Jammu & Kashmir State Power Development Corporation Ltd (JKSPDC) with equity contribution of 51% & 49% respectively.

Sir,

I am directed to convey the approval of the Competent Authority for:

- i. Implementation of Ratle HE Project through formation and incorporation of a Joint Venture Company (JVC) between NHPC, and Jammu & Kashmir State Power Development Corporation Ltd (JKSPDC) as per the agreement arrived at in the supplementary MoU (signed on 03.01.2021) read with the original MoU (signed on 03.02.2019) where in the equity contribution between NHPC and JKSPDC shall be in the ratio of 51% and 49 % respectively and that the share of NHPC in the JV shall not be brought below 51% and the share of JKSPDC shall not be brought below 49%.
- ii. Investment approval for construction of Ratle HE Project (850 MW) by the JVC at an estimated cost of ₹5281.94 crore at Nov.2018 price level, including Interest During Construction (IDC) and Financing Cost (FC) of ₹958.06 Crore.
- iii. Infusion of equity of ₹808.14 Crore by NHPC in the JVC for construction of Ratle HE Project (850 MW).
- iv. Grant to Govt. of UT of J&K from the budget of Government of India to be capped at ₹776.44 crore for equity contribution of JKSPDC (49%) in the JVC to be set up for construction of Ratle HE Project (850 MW). The additional equity contribution by JKSPDC on account of any increase in project cost due to escalation/or any other reason whatsoever, shall be required to be met by JKSPDC out of its own resources.
- v. NHPC shall not bear any contractual liability whatsoever with regard to the earlier work done and the result of the arbitral award in relation to such works shall fall on JKSPDC which alone shall bear its cost.

2. The abstract of cost, salient feature and details of other financial parameters etc., is enclosed as Annex.

5628395/2022/CE-02-KRS-VJWD

3. The Project shall be implemented with the following funding pattern:

Cost : ₹5281.94 crore Nov.2018 Price Level

Equity by NHPC : ₹808.14 crore Internal Resources

Equity by : ₹776.44 crore Grant to Govt. of UT of J&K from budget of JKSPDC

GoI capped at ₹776.44 crore*.

* The additional equity contribution by JKSPDC on account of any increase in project cost due to escalation/or any other reason whatsoever, shall be required to be met by JKSPDC out of its own resources.

4. The Project will be completed in a period of 5 years (i.e.60 months) from the date of approval by Government of India.

5. The sanction accorded above is subject to following conditions:

- The economy instructions issued by the Government of India from time to time, should be observed.
- The expenditure will be related to the purpose for which it is sanctioned.


6. M/s NHPC Ltd. will submit a quarterly report to the Ministry of Power indicating financial and physical progress of implementation of the Project.

7. Major milestones/ target i.e Formation of JV, transfer of clearances and Award of EPC contract by 11th month, Completion of Power House by 50th Month, Completion of Dam by 52nd Month, completion of Unit 1 by 57th Month, Unit 2 by 58th Month, Unit 3 by 59th Month, Unit 4 by 60th Month and Aux Unit by 60th Month from the date of approval should be ensured.

8. All necessary Standard Operating Procedures (SoPs) and safeguards should be put in place to avoid time and cost overruns.

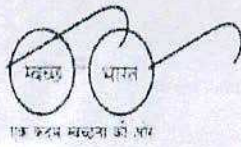
9. This issues with the concurrence of Finance Branch of Ministry of Power vide their Dy.No.241/fin./2021 dated 10.2.2021.

Encl: As above


(Anil Bajpai)
(Under Secretary to Government of India)
Tel. No. 23324357

Copy to:

- Cabinet Secretariat (Sh. S.G.P. Verghese, Director), Rashtrapati Bhawan, New Delhi w.r.t. letter No. 3/CM/2021(i) dated 22.01.2021.
- Secretary, NITI Aayog, Sansad Marg, New Delhi-110001



NH/Comml./new projects/2023/ 142

Date: 31.08.2023

Chief General Manager (Power Purchase),
Transmission Corporation of Andhra Pradesh Limited,
 Vidyut Soudha, Gunadala, Eluru,
 Vijawada, Andhra Pradesh- 520004.
 Email: rajendra.d@aptransco.co.in
 cecommercial@rediffmail.com

**Sub: Consent for procurement of power from upcoming projects of NHPC Ltd, its
 JVs.**

Ref: i) NH/Comml/Kiru/2023/57 dated 16.08.2023
 ii) NH/Comml/Dugar/2022/408 dated 29.04.2023
 iii) NH/Comml./new projects/ Dibang MPP/2021/1437 dated 27.12.2021

Sir,

In reference to cited subject, it is to mention that in past, NHPC vide various letters has requested APTRANSCO/APPCC for providing consent for purchase of power from upcoming Hydro projects viz. Dugar, Dibang, Kiru HEPs being developed by NHPC and its JVs. However, we are yet to receive any response in this regard.

Therefore, a detailed summary of upcoming hydro projects including two new HE projects Parbati- II & Sawalkot is once again enclosed at Annexure for kind reference.

Allocation of hydro Power shall be done by Ministry of Power, GOI based on consent received from interested States in respective projects.

In view of above, it is requested to kindly provide consent of your State/Discoms(s) for procurement from our Parbati-II, Kiru, Dugar, Dibang & Sawalkot HE projects through long term PPA basis.

Thanking You,

Yours sincerely,

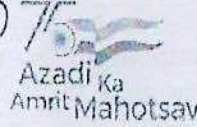
GENERAL MANAGER Power Purchase/APPCC GGM	
APGENCO.	HE Projects.
DIS, FGCL	RE-Wind.
IPPs.	Exchange-
Co-ordinating	Operations
GM/PT/APPCC.	

O/o. Chief General Manager, Power Purchase/APPCC APTRANSCO	
Inward No.	2699
14 SEP 2023	
GM/PP1	
GM/PP2	
GM/Legal	
GM/PT	

(M.K. Gupta)
GGM, HOD (Commercial)
 Email: nhpc-pt@nhpc.nic.in

पंजीकृत कार्यालय: एनएचपीसी ऑफिस कॉम्प्लेक्स, सेक्टर-33, फरीदाबाद, हरियाणा-121003
 Regd. Office: NHPC OFFICE COMPLEX, SECTOR-33, FAIDABAD-121003, HARYANA
 CIN-L4010HR1975GOI032564: Website: www.nhpcindia.com
 Email: webmaster@nhpc.nic.in EPABX No.: 0129-2583110/2583500

DEE
 31/8/23



NH/Comm/JK/2023/57

Date: 16.08.2023

The Chairman cum Managing Director,
Transmission Corporation of Andhra Pradesh Limited,
Vidyut Soudha, Gunadala, Eluru,
Via Jawada, Andhra Pradesh- 520004.
Email: cmd.aptransco@aptransco.co.in

Sub: Consent for procurement of power from 624 MW Kiru HEP located in UT of J&K being developed by CVPPPL (JV of NHPC Ltd).

Sir,

I am writing to bring to your kind attention for a significant opportunity in the realm of sustainable energy procurement. NHPC is a premier organization (Mini-Ratna Category-I CPSU) under Ministry of Power, GOI having installed capacity of 7097 MW comprising of Hydro, Solar & Wind Power Projects. NHPC has proven track record & successful accomplishment of last 47 years' experience on concept to commissioning / operation of Hydro-Electric Projects across India, Nepal & Bhutan with global presence in Hydro Sector.

NHPC Limited is developing Kiru HEP in UT of J&K through the JV Subsidiary Company "Chenab Valley Power Projects Private Limited (CVPPPL)". CVPPPL is incorporated as JV company between NHPC and Jammu & Kashmir State Power Development Corporation Ltd (JKSPDCL) with holding equity share of 51% and 49% respectively.

NHPC is seeking for prospective buyers to tie-up hydro power from Kiru HEP on long term PPA basis. Major highlights of project are as under:

Description	Kiru HE Project
Installed Capacity	624 MW (4 x 156MW)
Location & River	Kishtwar, UT of J&K on Chenab River
Type of Project	ROR having 2.7 hrs peaking
Expected Commissioning	March'2026
Free Power & LADF to Home state	13% (Free Power: 12% & LADF: 1%)
Available Power for sale	543 MW
Levelized Tariff	₹ 4.64/unit
Annual Design Energy (MU)	2272
Transmission connectivity	ISTS connectivity
Useful life	40 years
Actual tariff	Tariff/Annual Fixed Charges (AFC) shall be determined by CERC under section 62 of Electricity Act' 2003.
Allocation of Power among States/Discom(s)	Allocation is to be done by Ministry of Power, GOI based on consent / PPA signed with States/Discoms(s).

पंजीकृत कार्यालय: एनएचपीसी ऑफिस कॉम्प्लेक्स, सेक्टर-33, फरीदाबाद, हरियाणा-121003
Regd. Office: NHPC OFFICE COMPLEX, SECTOR-33, FAIDABAD-121003, HARYANA
CIN-L4010HR1975GOI032564; Website: www.nhpcindia.com
Email: webmaster@nhpc.nic.in EPABX No.-0729-2588110/2588500

Further, Procurement of Hydro Power is beneficial for DISCOMS due to following merits of hydro power,

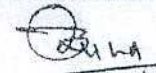
- ❖ Hydro power aligns seamlessly with the broader objectives of integrating large-scale renewable power into the grid.
- ❖ Hydroelectric projects possess longer project life rendering a sustainable and cost-effective source of electricity. Additionally, absence of fuel costs and comparatively lower O&M expenditures set hydro power apart from other energy sources, contributing to reduced tariffs and enhanced economic viability.
- ❖ Hydroelectric projects especially in Himalayan Region have potential to generate energy beyond its DE termed as secondary energy being sold at lower tariff presently @Rs1.20 per unit driving down the effective tariff.
- ❖ Over the course of its operational life, the hydro tariff decreases & tariff structure becomes increasingly competitive and advantageous through long-term PPAs.
- ❖ It is also worth highlighting that hydro power projects extend their useful life by an additional 25 years after their initial operational period of 40 years.
- ❖ **Compliance of HPO obligation:** As per Ministry of Power, Government of India notification/order dated 8th March'2019, 29th January'2021 & 22nd July'2022 on "Measures to promote Hydro power sector", the projects commissioned after 08.03.2019 are eligible for HPO with additional value proposition to DISCOMS.
- ❖ **Waiver off ISTS Charges:** In line with the recent regulatory developments, this project stands to benefit from the waiver of ISTS transmission Charges, as stipulated by the CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations of 2023. This waiver is applicable to new hydro projects that sign PPAs by June 2025, adding another layer of financial advantage to DISCOMS.

In light of the aforementioned merits, I cordially invite your esteemed organization to consider the prospect of entering into a Long-Term PPA for procuring hydro power from the Kiru HE Project. NHPC shall pursue to seek the allocation of power from Ministry of Power accordingly to interested DISCOMS/ Beneficiaries after receipt of consent/signing of PPA.

Thank you for considering this proposal and feel free to reach out to NHPC for additional information or discussions if any.

Best Regards,

Yours sincerely,



(Onkar Yadav)

General Manager (Comml.)

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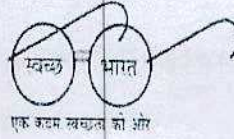
Group General Manager (Commercial), NHPC Limited, Faridabad – for kind information please.

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Ref. No. NH/Comml./Dugar /2022/ 408

Date: 29.04.2022

The Chairman cum Managing Director,
Transmission Corporation of Andhra Pradesh Limited,
Vidyut Soudha, Gunadala, Eluru,
Viajawada, Andhra Pradesh- 520004.

Sub: Consent for Procurement of Power from 500 MW Dugar HE Project, Himachal Pradesh.
Sir,

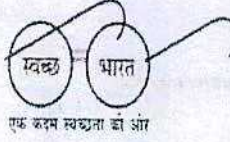
NHPC is a premier Hydro Power organization (Mini-Ratna Category-I CPSU) under Ministry of Power, Govt. having installed capacity of 7071 MW comprising of Hydro, Solar & Wind Power Projects. NHPC has proven track record & successful accomplishment of last 46 years' experience from concept to commissioning/ operation of Hydro-electric projects. Company is supplying power to our 31 nos. DISCOM(s) / Beneficiary states through long term PPAs.

Central Electricity Authority (CEA) on 26.04.2022 has approved the cost estimates of 500 MW Dugar HE Project, Himachal Pradesh, which is likely to be taken up for construction by NHPC shortly. NHPC is looking up for prospective buyers for tieing up the power from Dugar HE Project on Long term basis. Some of major highlights of project are as under:

Description	Dugar HE Project
Installed Capacity	500 MW (4 x 103 MW + 2 x 44 MW MW)
Location	Chamba District (Himachal Pradesh).
Type of Project	ROR with pondage having 3.62 hrs peaking
Expected Commissioning	74 Months from Zero date i.e. 01.06.2022
Free Power & LADF % to Home state	13%
Levelling Tariff	₹ 4.46/unit.
Annual Design Energy	1759.85 MU
Transmission connectivity	ISTS connectivity
Useful life	40 years
Actual tariff	Tariff/Annual Fixed Cost (AFC) shall be determined by CERC under section 62 of Electricity Act' 2003.
Allocation of Power among States/Discom(s)	Allocation is to be done by Ministry of Power, GOI based on consent received from States/Discom(s).

- ❖ Dugar HE Project shall also provide requisite peak demand and support to the national grid.
- ❖ As per Ministry of Power, Government of India notification /order dated 08th March'2019 & 29th January'2021 on "Measures to promote Hydro power sector" the projects commissioned after 08.03.2019 are eligible for HPO. The effective tariff of above project

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is likely to reduce further after considering benefits of HPO and other measures notified by MoP, Gol.

- ❖ Also, useful life of the Hydro project is 40 years can be further extended upto 25 years after Renovation & Modernization (R&M) of Project. So, Discom(s) hydro power is available for approximate for 70 Years at nominal tariff.

In view of above, your good self is requested to kindly provide consent of your State/Discom(s) for procurement of Hydro Power from **500 MW Dugar HE Project** through Long Term PPA basis. NHPC shall consider the requirement of Discom(s) /States on first cum first serve basis. Subsequently, NHPC shall approach MoP, Gol for allocation of power amongst Discom(s)/States.

Thanking you,

Yours sincerely,

3/04/22

(Ajay Shrivastava)

General Manager (Comml.)

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Email : webmaster@nhpc.nic.in EPABX No..0129-2588110/2588500



एनएचपीसी लिमिटेड
(भारत सरकार का उद्यम)
NHPC Limited
(A Govt. of India Enterprise)

Ref. No. NH/Comml./new project/Dibang MPP/2021/ 1437

Date: 27.12.2021

The Chairman cum Managing Director,
Transmission Corporation of Andhra Pradesh Limited,
Vidyut Soudha, Gunadala, Eluru,
Viajawada, Andhra Pradesh- 520004.
Email: cmd@aptransco.co.in; ce.coml@aptransco.co.in

Sub: Consent for Procurement of Power from upcoming 2880 MW Dibang Multipurpose Project of NHPC.

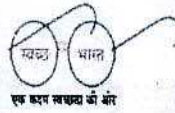
Sir,

NHPC is a premier Hydro Power organization (Mini-Ratna Category-I CPSU) under Ministry of Power, GoI having installed capacity of 7071 MW comprising of Hydro, Solar & Wind Power Projects. Company has proven track record & successful accomplishment of last 46 years' experience from concept to commissioning/ operation of Hydro-electric projects. Company is supplying power to our 31 nos. DISCOM(s) / Beneficiary states through long term PPAs.

Recently, Central Electricity Authority (CEA) has cleared the cost estimates of **2880 MW Dibang Multipurpose Project**, the country's largest Hydro power project, which is likely to be taken up under construction by NHPC shortly. NHPC is looking up for prospective buyers for tying up the power from Dibang Multipurpose Project on Long term basis. Some of major highlights of project are as under:

Description	Dibang Multipurpose Project
Installed Capacity	2880 MW (12 x 240 MW)
Location	Village Munli near Roing, District: Lower Dibang Valley, Arunachal Pradesh
Type of Project	Multi-Purpose Project
Expected Commissioning	Year 2031 (Schedule period 09 years from the Zero date i.e. 01.07.2022)
Free Power & LADF % to Home state	13%
Levelling Tariff	₹ 4.73/unit.
Annual Design Energy	11223 MU
Useful life	40 years

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एनएचपीसी लिमिटेड
(भारत सरकार का उद्योग)
NHPC Limited
(A Govt. of India Enterprise)

Continuation Sheet No.

Actual tariff	Tariff / Annual Fixed Cost (AFC) shall be determined by CERC under section 62 of Electricity Act' 2003.
Allocation of Power among States/Discom(s)	Allocation is to be done by Ministry of Power, GOI based on consent received from States/Discom(s).

Dibang Multipurpose Project is eligible for HPO and other benefits as per Ministry of Power, Government of India notification /order dated 08th March'2019 & 29th January'2021 on "Measures to promote Hydro power sector". The effective tariff of above project is likely to reduce further after considering benefits of HPO and other measures notified by MoP, GoI.

In view of above, your goodself is requested to kindly provide consent of your State/Discom(s) for procurement of Hydro Power from **2880 MW Dibang Multi-Purpose Project** through Long Term PPA basis. NHPC shall consider the requirement of Discom(s) /States on first cum first serve basis. Subsequently, NHPC shall approach MoP, GoI for allocation of power amongst Discom(s)/States.

Thanking you,

Yours sincerely,

(Signature)
27/12/21

(S.P.Rathour)
General Manager (Comml.)
Commercial Division
Email: nhpc-pt@nhpc.nic.in
Tel: 0129-2588556

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DETAILS OF UPCOMING HYDRO PROJECTS OF NHPC LIMITED

DESCRIPTION	PARBATI II	KIRU	DIBANG	DUGAR	SAWALKOT
INSTALLED CAPACITY (MW)	800	624	2880	500	1856
HOME STATE	HIMACHAL PRADESH	UT OF J&K	ARUNACHAL PRADESH	HIMACHAL PRADESH	UT OF J&K
PROJECT OWNERSHIP	NHPC Standalone	CVPPPL (Joint Venture of NHPC Limited & JKSPDC)	NHPC Standalone	NHPC Standalone	NHPC Standalone
TYPE OF PROJECT	ROR WITH PONDAGE	ROR	STORAGE/MPP	ROR WITH PONDAGE	ROR
PEAKING HOURS	3.0	2.7	MORE THAN 03 HR\$	3.00	3.0
DESIGN ENERGY (MU)	3125	2272	11223	1760	7995
FREE POWER(12%+ LADF -1%)	104	81	374	65	241
LEVELLISED TARIFF (RS/KWH)	6.14	4.64	4.46	4.46	5.62
USEFUL LIFE OF PROJECT	40 years	40 years	40 years	40 years	40 years
ELIGIBILITY OF HPO BENEFITS	Yes	Yes	Likely to be eligible (Presently HPO trajectory upto 2030)	Yes	Likely to be eligible (Presently HPO trajectory upto 2030)
STATUS OF PROJECT	Under Construction	Under Construction	Under Construction	PIB/ CCEA sanction under process	PIB/ CCEA sanction under process
EXPECTED COMMISSIONING	JUN'24	MAR'26	FEB'2032	Mar'30 (74 months from GOI investment approval, likely date of CCEA, GOI Jan'24)	Apr'32 (96 months from GOI investment approval, likely date of CCEA, GOI Apr'24)

