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OFFICE OF CHIEF TECHNICAL OFFICER

No. Tech/DGMT-II/MT-IV/Riali-II/ 7084-85

Date: 22.03.700

WITHOUT PREJUDICE

The Registrar,

NEPRA.

NEPRA Tower, Ataturk Avenue (East)

G-5/1. Islamabad.

Submission of Tariff Proposal in respect of M/s Riali-II Hvdro Power Project in Sub: AJ&K.

Ref:

- CPPA letter No. CTO/CPPA (G)/DGM-V/35261-62 dated 06.10.2017. (i)
- (ii) CPPA Letter No. CTO(CPPA-G)/DGM-V/35430-32 dated 10.10.2017
- (iii) CPPA Letter No. CTO(CPPA-G)/DGM-V/32150-51 dated 28.08.2017
- (iv) NEPRA's letter No. NEPRA /LA(Leg)/NRG-19/14396 dated 22.08.2017
- (v) CPPA Letter No. CEO/CPPA-G/30665-68 dated 09.08.2017
- (vi) CPPA Letter No. CEO/CPPA-G/28783-86 dated 21.07.2017
- (vii) NEPRA's letter No. NEPRA /LA(KIP)/NRG-19/10609 dated 23.06.2017

The Tariff Proposal submitted by the seller is being forwarded by CPPA to the Authority stipulating the status of compliance by the seller with respect to the documents required under Regulation 3(1) of the National Electric Power Regulatory Authority (Import of Power) Regulations. 2017 (the "Import Regulations").

Accordingly, please find attached herewith the requisite table, specifying therein the shortcomings in the Tariff Proposal submitted by M/s Riali-II Hydro Power Project for onwards submission to the Authority for review, consideration and further necessary action as per the applicable regulatory framework. It is specified that the details required in Regulation 3 of the Import Regulations has been formulated in tabulated form which is hereby attached with as Annexure A.

It is pertinent to mention here that as per the Import Regulations and the clarification rendered by the Authority vide letter dated 22-08-2017, it is the responsibility of the seller to arrange the requisite documents and verify the correctness, fairness and validity of any information contained and request made in the same.

In view of above, the Tariff Proposal is being forwarded to the Authority subject to reservations specified in the Annexure A and qualifications specified above as well as submissions made in letter mentioned above. Further, CPPA-G reserves its rights to raise any comments/objections, merits/demerits in any proposal subsequently during the course of application of this Tariff Proposal. CPPA also reserves right of hearing for subject tariff proposal.

SYED IQBAL MEHDI

Chief Technical Officer, CPPA-G

Copy to:

1. Chief Executive Officer, CPPA-G Islamabad.

Master File.



Riali Hydro-II -Small Hydro Power Project (Annex-A)

Details information's/documents submitted by Riali Hydro Power Company Private Limited along with its Tariff Proposal under Regulation 3 of Import Regulation is as follows:

Sr.No.	Details required for Tariff Proposal	Available	Not Available	Remarks
а	Name and address of the applicant;			CPPA is forwarding the Tariff Proposal as per the Import Regulations, subject to reservations and qualifications set forth herein and the attached letter.
b Markete M S-6 c dia	Authorization from the competent authority to file application along with affidavit as to the correctness of the information.	1	1 V V V V	CPPA-G cannot and does not confirm the correctness of information as provided by the project company. Further the Board Resolution and Affidavit, as provided by the project company, are attached herewith at (Annex-B).
C	Demand that is going to met through the proposed Import of power.			It is the responsibility of NTDCL and the concerned Disco to provide the detail regarding the demand that is going to be met through the proposed Import of Power.
				Moreover it is highlighted that: 1. CPPA-G had given conditional consent (Annex-C), which company has now accepted through their letter dated 17.03.2018. (Annex-C1).
d ** ****	Detail of Seller including but not limited to name, address, description of generation facilities etc.			Detail of Seller is attached as (Annex-D)
	Comprehensive Tariff Proposal -including proposed rates of Import of Power.			Tariff Proposal is attached (Annex-E), along with Sellers letters dated 17.03.2018 (Annex-C1). Authority to consider applicability and availability of same to the Seller in light of legal, regulatory and policy framework. To the extent of extension of upfront tariff the matter is sub judice in WP No. 655/2018 wherein the Honourable Islamabad High Court has passed order dated 21.02.2018 (Annex-E1).

Riali Hydro-II -Small Hydro Power Project (Annex-A)

f	Source of Power Generation, where applicable.	1			This information is in the context of nature of fuel, which in the instant case is Hydel.
g	Capacity and/ or the estimated annual energy to be imported.	1			Installed Capacity 7.08 MW (gross), 7.01 MW (net) and Annual Energy will be subject to actual Hydrology. However, the company estimated the annual Energy as 37,740,000 kWh (Annex-F)
h	Feasibility study of the project, if applicable.				Project company has submitted the approval of Feasibility study by AJ &K (PPC) (Annex-G)
i	Proposed interconnection arrangement with approximate distance.			.•	Interconnection Approval Letter from GM Planning NTDCL has been attached (Annex-H) and PESCO approval is also attached. (Annex-I)
j	Augmentation required in existing transmission network and/ or the grid, if any;		:		As provided by the Project Company (Annex-I-1)
k	Estimated costs of the interconnection arrangement and the augmentation required in the transmission network	1			As provided by the Project Company (Annex-I-1)
1	The technology, indicating primary fuel, alternate primary fuel and back up fuel. Where applicable;		.		Hydel
m	Undertaking from Seller to comply with grid code, distribution code and other applicable documents;		:		Undertaking Provided by the Company attached (Annex-J)
n	The expected commercial operations date;				October, 2020 (Annex-F)
0	The expected duration of Import of Power;				30 Year
p	The adequacy of the transmission system of the national grid company or Distribution Company, as the case may be, to import the electric power;			1	Not available
q	The summary-of evidence giving brief particulars of the data, facts and evidence in support of the application; and	1	122] # J + 2 1	Authority to consider documents attached with the Tariff Proposal. Company would bear Hydrological Risk.
r	Any other information in such format as may be required by the Authority from time to time.				Authority to consider and direct additional information as may be required.



Riali Hydro Power Company (Pvt.) Ltd

BOARD RESOLUTION.

F/A-4

At a meeting of the Board of Directors of Riali Hydro Power Company (Pvt.) Ltd (RHPCO) held at Islamabad on the 29th day of November, 2016 the following resolutions were passed:

The documents, that Mr. Abdul Karim Qureshi S/O Mr. Ghulam Rasool Qureshi (Chief Executive) bearing CNIC #, 61101-2023916-5 is hereby authorized on benalf of the Company to nominate any representative of (RHPCO), to deal and sign, with all related Government departments and Autonomous bodies i.e. (National Electric Power Regulatory Authority (NEPRA))

(Central Power Purchasing Agency (Guarantee) Limited (CPPA (G))

(Private Power and Infrastructure Board (PPIB))

(Peshawar Electric Supply Company (PESCO))

(National Transmission and Despatch Company Limited (NTDGL)

(Private Power Cell (PPG) (GOAJK))

(Scnior Member Board of Revenue (SMBR) Office (GOAJ&K)

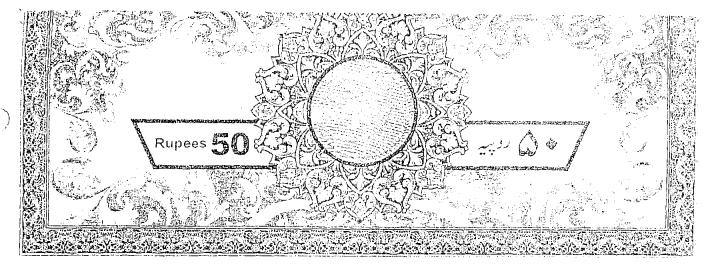
We certify that the above resolutions have been duly entered in the minute's book and singed therein by the Chairman of the meeting and are in accordance with the Articles of Association of the Company and that the Company is a Private limited company.

Date: 29th November, 2016

	Names	Designation	Signatūres
Mr.	Abdul Karim Qureshi	Chief Executive	
. Mr.	Ahmed Ali Qureshi	Director	
. Sye	d Ali Gardezi 🔠 👍	Director	Sall, / Quin
			ONER COM
	ム仏。 ahd wajed		SHAHID MAJEED Company Secretary Secretary
THE STATE OF THE S	Converse Generally		A * 05

"Our focus is on Small Hydro Power Development"

Head Office: 59-E, Street - 7, Sector I-10/3, Islamabad, Tel: (+92-51) 4446873-74, 4436004 Fax: (+92-51) 4431774, Email: rialihydro@notmail.com; Website: www.rialihydro.com



FAA

Power of Attorney

KNOW BY ALL MEAN THAT by this Power of Attorney ("Power of Attorney"), M/s Riali Hydro Power Company (Pvt.) Ltd having its registered office at Plot # 59-E, St # 7, Sector I-10/3, Islamabad do hereby nominate, appoint and authorize Mr. Syed Mahmood Hussain Gardezi S/o Syed Luqman Hussain Shah R/o Poonch House, Main Simli Dam Road, Bhara Kahu, Islamabad, hereinafter referred to as the "Attorney" to: deal with all government departments (autonomous bodies) i.e. (Office of the Senior Member of Revenue Board (GOAJ&K)), (NEPRA), (PPIB), (NTDCL), (Kashmir Council (GOAJ&K)), (PPC), for the specific purpose to deal, negotiate, sign all the necessary documents on behalf of M/s Riali Hydro Power Company (Pvt.) Ltd

M/s Riali Hydro Power Company (Pvt.) Ltd do hereby ratify and confirm whatever the Attorney shall do by virtue of these presents.

Dated: 29th November, 2016

Name of the Grantor: Abdul Karim Qureshi

Designation: Chief Executive

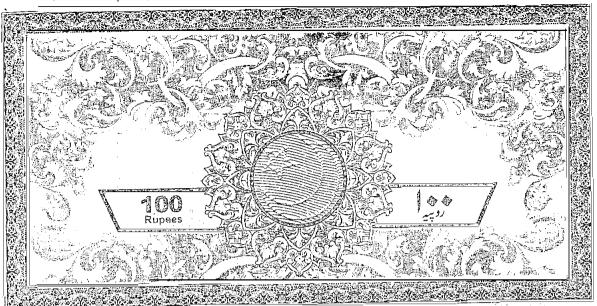
National ID card No: 61101-2023916-5

(Syed Malimood Hussain Gardezi)

CNLC # 61101-3473746-L

TTESTED Decimen Signature of Authorized Attorney)

ATTESTED Pecim



F/A-5

SCHEDULE-II

[Regulation 3(b) of Import of Power Regulations 2017]

BEFORE THE NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

AFFIDAVIT

1, Sved M. Hussain Gardezi S/o Sved Luqman Hussain Shah CNIC No. 61101-3473746-1, Director (Development), M/s Riali Hvdro Power Company (Pvt.) Ltd hereby solemnly affirm and declare on oath that the contents of the accompanying application (including upfront tariff application) and tariff proposal including all attached documents-insupport are true and correct to the best of my knowledge and belief and that nothing has been concealed.

DEPONENT

Signature

Name: Sved M. Hussain Gardezi

Dated: March 19. 2018

ATTENTED



Central Power Purchasing Agency (Guarantee) Limited

A Company of Government of Pakistan



No. CPPAGL/2017/CEO/RHPCO/8239-45

OFFICE OF CHIEF EXECUTIVE OFFICER

Date: 26 - 05 - 17

F/I-I

The Registrar NEPRA, NEPRA Office Building G-5/1, Attaturk Avenue (East), Islamabad

Subject: Consent of Purchase of Power in Respect of

7.08 MW Riali-II Small Hydropower Project, District Muzaffarabad, AJK

- 1. Pursuant to NEPRA's Upfront Tariff (Approval and Procedure) Regulations, 2011 'Consent of Purchase Power' is hereby issued in respect of 7.08 MW Riali-II Hydropower Project at Ghoriwalla Katha, Muzaffarabad AJK.
- 2. Issuance of Consent to Purchase Power is subsequent to fulfilment of all requirements under 'Guidelines/SOP for Power Procurement by CPPA-G under NEPRA Renewable Energy Companies Guidelines, 2015' issued by CPPA-G vide No. CPPA-G/_CS/2016/1965 dated 31-05-2016: and subject to the following conditions:
 - i) Bock to back agreement between CPPA-G and relevant DISCOs for the evacuation of Power;
 - ii) Approval of Grid Interconnection Study by the relevant DISCOs and NTDC;
 - Regulotions;
 - iv) CPPA-G will procure Power, on behalf of relevant DISCOs, from the project companies an Take and Pay basis;
 - v) Based on the obove necessary changes will be mode in the EPA
- 3. This is issued with approval of Board of Directors, Central Power Purchasing Agency (Guarantee) Limited given under Board Resolution No. VII/27 presented on 25th May 2017 and notified by Company Secretary vide No. CPPA-G/2017/CS/1021-24 dated 25th May 2017.

Chief Executive Officer

Copy to:

1. Chief Executive Officer, PESCO, Sakhi Chasma, Shami Road Peshawer

2. Managing Director, PPIB, Emigration Tower, G-8/1 Islamabad.

3. Chief Technical Officer, CPPA-G, Islamabad.

4. Director General, Private Power Cell, Upper Chatter, Muzaffarabad AJK.

5. Company Secretary, CPPA-G, Islamabad.

6. M/s Riali Hydro Power Company (Pvt) Limited, 59-E, Street 7, I-10/3 Islamabad.

Master File.

SF



Riali Hydro Power Company (Pvt.) Ltd

F/I-2

Annexure - III

Date: March 17, 2018

The Registrar National Electric Power Regulatory Authority <u>Islamabad.</u>

Subject:

Certifications in respect of application opting for upfront tariff for small

hvdropower generation

I, Syed M. Hussain Gardezi, Director (Development), being the duly Authorized representative of Riali Hydro Power Company (Pvt.) Ltd by virtue of Board Resolution / Power of Attorney dated 29-11-2016, hereby confirm that for our project of 7.08 MW installed capacity to be located at Ghoriwala Katha, District Muzaffarabad, Azad Jammu & Kashmir.

- 1. All the plant and machinery to be installed will be brand new.
- 2. Riali Hydro Power Company (Pvt.) Ltd will bear the hydrological risk.
- 3. The above mentioned is a green field hydro power project, Riali Hydro Power Company (Pvt.) Ltd has not availed any soft loan for the aforesaid project. In case any soft loan becomes available to Riali Hydro Power Company (Pvt.) Ltd, we will intimate the Authority, within 10 days of such event and will not claim the upfront tariff granted to us.
- 4. The annual plant factor of the aforementioned project, as certified by the panel of experts, is not based on the detailed design report.
- 5. We have not already executed a power purchase agreement with the power purchaser for the aforementioned project or have achieved financial close for the aforementioned project.
- 6. Riali Hydro Power Company (Pvt.) Ltd may be granted upfront tariff based on the following loan structure:

Foreign loan:

Total:

100

100

Date: 17th March, 2018

Signature:

Name: Syed M. Hussain Gardezi

Designation: Director (Development)

Company Seal

"First Small Hydro Power Project in Private Sector"

Head Office: 59-E, Street - 7, Sector I-10/3, Islamabad. Tel: (+92-51) 4446873-74, 4436004 Fax: (+92-51) 4431774, Email: rialihydro.com, Website: www.rialihydro.com

[Regulation 4(3)(x)]

Hydropower Generation Facility - Information Summary ***

1.

Name of Applicant : Riali Hydro Power Company (Pvt.) Ltd

Registered Office 2.

: 59-E, Street 7, I-10/3, Islamabad.

Business Office

: 59-E, Street 7, I-10/3, Islamabad.

Project Location

: Ghoriwala Katha (Riali), 17 KM Upstream from Muzafarabad.

Plant Details (Optional):

a. Manufacturer : Zhejiang Jinlun Electromechanic Co., Ltd

b. Make & Model

: Brand "JinLun", type CJJ475-W-115/2*10.

Plant Capacity (MW): 7.08MW

d. Technology:

1) IEC 60041 Ed.3: 1991

Field acceptance tests to determine the hydraulic performance of hydraulic turbines. pumps and pump-turbines

2) IEC 6060<u>9-1: 2004</u>

Hydraulic turbines, storage pumps and pump-turbines - Cavitation pitting evaluation - Part 1:

Evaluation in reaction turbines, storage pumps and pump-turbines

3) IEC 60609-2: 1997

Cavitation pitting evaluation in hydraulic turbines, storage pumps and pump-turbines

4) IEC 62097:2009 Ed1.0

Hydraulic machines, radial and axial - Performance conversion method from model to prototype

5) IEC 60545: 1976

Guide for commissioning, operation and maintenance of hydraulic turbines

6) GB/T15468-2006

Fundamental technical requirements for hydraulic turbine

7) GB/T7894-2001

Fundamental technical requirements for hydraulic turbine-generator

8) GB/T14478-93

Fundamental technical requirements for large and medium inlet valves of hydraulic turbine

9) GB11805-99

Basic technical requirements for automatic control components and their related systems for large and medium hydrogenerating sets

: October, 2017...

10) DL/T507-2003

Start-up test code for hydraulic-turbine and generator unit

Unit Size (MW) : 3.54

f. Number of Units

Reference Site Conditions (Optional) : 6.

rangan merangkan jada beganda adam bekan dalam penggan gi

Design Net Head m

Harry Finder Fabrua Net rated discharge m3/sec : 2.8

c. Gross annual electrical out MW

d. Auxiliary Consumption MW : -----

e. Net annual energy production Gwh : 37.74 Gwh

Net annual plant capacity factor : 61%

7. Expected Date of Financial Close

Expected date of Commercial Operation (COD) : October, 2020 8.



INFORMATION ABOUT GENERATION CAPACITY UNDER PROPOSED PROCUREMENT REQUEST M/S RIALI HYDRO POWER COMPNAY PRIVATE LIMITED

Description	Generator 1	Generator 2
Capacity MW (Gross)	3.54	3.54
Technology	High head, low disc	harge Pelton Turbines
Fuel		
Weather forms part of	A hydro power plant that	
least cost plan	forms part of least cost ge	eneration plan
Availability of Power	7.0	8 MW
Year of	Tentative: (October, 2020
Commissioning		
Location		strict Muzaffarabad, Azad
		& Kashmir
Proposed Grid for		Grid Station, 11/132kV,
interconnection	approximately 17 kms a	away from proposed power
Approximate distance	p	lant
Augmentation	33 kV incoming bay to	be rehabilitated / inserted
required in Grid		
Augmentation	2 m 3 m 1	
required in	33 kV line to be reha	abilitated / constructed
transmission network	and the second second	<u> </u>
Estimated cost if		
augmentation	Rs. 192 million [33kV De	ouble Circuit Transmission
required in	Line & works	at grid station]
transmission network		
Steps taken or	33 kV overhead transmis	ssion line is non- operative.
required for	This line shall be reha	abilitated and restored for
transmission	evacuation of power f	rom proposed plant and
augmentation	adjacent forthcoming pla	ants to Muzaffarabad (Old)
		TDC had already accepted
Any other	The power station shall a	dd valuable hydro energy to
information		sources. It shall save fuel
	amounting to Rs. 700 r.	nillion annually if an equal
	thermal plant is operated	•

SUMMARIZE: Total capacity proposed to be procured over the period (MW):

Year 1: 7.01MW Year 2: 7.01MW Year 3: 7.01MW Year 4: 7.01MW



Primary Fuel

nil

Energy Source

Renewable hydro sources

Impact

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Power Procurement would lower the overall price of energy of the power mix being

Voltage level

33 kV

Name of the Grid Station

132/11 KV Muzaffarabad, Azad Jammu & Kashmir

Load Flow Analysis

Interconnection Study (Section 5) give details of load flow analysis is attached.



Name and Address of the Applicant

FII

1. Name of Applicant : Riali Hydro Power Company (Pvt.) Ltd

2. Registered Office : 59-E, Street 7, I-10/3, Islamabad.

3. Business Office : 59-E, Street 7, I-10/3, Islamabad.

4. Project Location : Ghoriwala Katha (Riali), 17 KM Upstream from Muzafarabad.





Riali Hydro Power Company (Pvt.) Ltd

Ref No: RHPCO/CPPA/2017/109

Dated: 15th December, 2017

Chief Executive Officer
Central Power Purchasing Agency Limited (CPPA (G))
1st Floor, ENERCON Building,
Sector G-5/2, Islamabad

SUBJECT: SUBMISSION OF POWER ACQUISITION REQUEST (PAR) AND

UPPRONT TARIFF APPLICATION ON BEHALF OF RIALI - II

HYDRO POWER PROJECT (7.08 MW)

[1] Ref: RHPCO/CPPA/UFT/2017/076; dated 26th August, 2017

Dear Sir.

Your kind attention is requested to our above referred letter to CPPA-G, dated: 26th August, 2017 regarding the issuance of CPPA-G consent for power purchase from subject mentioned project, and to forward our PAR and Upfront Tariff Application to NEPRA (copy attached). All the required documents with respect to PAR and Upfront Tariff Application were submitted to CPPA (G) along with the above referred letter.

Moreover, CPPA (G) has issued their consent to purchase power from the aforesaid project on 26th May, 2017 (copy attached).

Submissions:

In light of the aforesaid, it is submitted:

a. That CPPA-G may forward our PAR and Upfront Tariff Application to NEPRA for further due-diligence and process by the authority.

We are looking forward to a positive response; meanwhile we remain at your services.

(Syeu M. Hussain Gardezi)

Director (Development)

Cc:

- The Registrar (NERRA), NEPRA Tower, Attaturk Avenue (East), G-5/1, Islamabad.

- Office Copy



Riali Hydro Power Company (Pvt.) Ltd

F/A-11

Annexure - III

Date: March 17, 2018

The Registrar
National Electric Power Regulatory Authority
Islamabad.

Subject:

Certifications in respect of application opting for upfront tariff for small

hydropower generation

I, Syed M. Hussain Gardezi, Director (Development), being the duly Authorized representative of Riali Hydro Power Company (Pvt.) Ltd by virtue of Board Resolution / Power of Attorney dated 29-11-2016, hereby confirm that for our project of 7.08 MW installed capacity to be located at Ghoriwala Katha, District: Muzaffarabad, Azad Jammu & Kashmir.

- 1. All the plant and machinery to be installed will be brand new.
- 2. Riali Hydro Power Company (Pvt.) Ltd will bear the hydrological risk.
- 3. The above mentioned is a green field hydro power project, Riali Hydro Power Company (Pvt.) Ltd has not availed any soft loan for the aforesaid project. In case any soft loan becomes available to Riali Hydro Power Company (Pvt.) Ltd, we will intimate the Authority, within 10 days of such event and will not claim the upfront tariff granted to us.
- 4. The annual plant factor of the aforementioned project, as certified by the panel of experts, is not based on the detailed design report.
- 5. We have not already executed a power purchase agreement with the power purchaser for the aforementioned project or have achieved financial close for the aforementioned project.
- 6. Riali Hydro Power Company (Pvt.) Ltd may be granted upfront tariff based on the following loan structure:

Foreign loan: Local loan: % 0 100

Total:

100

Date: 17th March, 2018

Signature:

Name:

Sved M. Hussain Gardezi

Designation: Director (Development)

Company Seal



Payce's A/C Only

Not Over PKR***50,000.00 Only ***

BC No. 1430142 14301427

Date:

02-Feb-2016

Pay to .

NATIONAL ELECTRIC POWER REGULATORY AUTHORITY

or order

Pak Rupees Fifty thousand Only

Payable at any branch of Askari Bank Ltd in Pakistan

or operation and the residence

مداديا أستطعم والمحاج والمارات والهلاك

ulitaria, demá responsablicaria nativarias Auvines acid والتراضيف والأوروسي والمراج للتنشير فالمحاج المحار

PKR***50,000.00***

For Askari Bank Limited

hamm Truz

Authorized Signature

Z tothorized Signa

143014 27#01707871:0000000000000000



Riali Hydro Power Company (Pvt.) Ltd

WITHOUT PREJUDICE

Dated: 17th March, 2018

Ref No: RHPCO/CPPA(G)/2018/026

Chief Executive Officer Central Power Purchasing Agency Limited (CPPA (G)) 1st Floor, ENERCON Building, Sector G-5/2, Islamabad

SUBJECT: <u>HYDROLOGICAL RISK - 7.08MW RIALI - II HYDRO POWER</u> PROJECT (the "Project")

[1] Ref: RHPCO/CPPA/UFT/2017/109; dated 15th December, 2017 (copy attached) Dear Sir.

Your kind attention is requested to our above referred letter to CPPA-G, dated: 15th December, 2017 for filing the subject project tariff proposal and Upfront Tariff Application to NEPRA (copy attached).

As confirmed earlier through the above referred letter, we would like to reiterate that:

- A. The Project Company will bear the hydrological risk for the Project. In this regard. NEPRA required certification is attached herewith for your record.
- B. <u>CPPA-G will procure power, on behalf of relevant DISCO, from the Project Company on Take and Pay & Must Run basis.</u>

The CPPA (G) has issued consent to purchase power from the project on 26th May, 2017.

Submissions:

In light of the aforesaid, it is again submitted:

That CPPA-G may kindly forward our Tariff Proposal and Upfront Tariff Application to NEPRA for further process by the Authority.

We are looking forward to a positive response; meanwhile we remain at your services.

(Syed M. Hussain Gardezi)
Director (Development)

Encl: RHPCO Letter dated 15.12.2017 & Annexure – III of NEPRA Upfront Topiff Application

Cc:

- Director General (PPC) AJK PDO, Upper Chatter Marking abad.
- Office Copy.

Report Update Conversion of the Conversion

Regust Usa to Construction of the NEWA

CTO

CFG
CUG
Company Secretary

DC HR/Adma
[Chie/ Information Offices
SC Technics]

"First Small Hydro Power Project in Private Secto

Head Office: 59-E, Street - 7, Sector I-10/3, 30 amabad. Tel: (+92-51) 4446873-74, 4436004 Fax: (+92-51) 4431774, Email: rialihydro@hotmail.com, Website: www.rialihydro.com



Riali Hydro Power Company (Pvt.) Ltd

F/A-2

WITHOUT PREJUDICE

Dated: March 17, 2018

Ref No: RHPCO/CPPA(G)/2018/025

Chief Executive Officer
Central Power Purchasing Agency Limited (CPPA (G))
1st Floor, ENERCON Building,
Sector G-5/2, Islamabad

SUBJECT: PROVISION OF REQUISITE INFORMATION - 7.08MW RIALI-II HYDROPOWER PROJECT, AJK (the "Project")

This is with reference to your letter No. Tech/DGMT-II/MT-IV/RHPCO/111-14 dated 26.01.2018 regarding the provision of comprehensive Tariff Proposal on the basis of established Annual Benchmark Energy, other tariff assumptions, Tariff break-up-and details in respect of captioned power project.

We are pleased to attach the requisite information with the following submissions:

Submissions

- a. That the Project is located in the State of Azad Jammu & Kashmir (AJK). Accordingly, the Tariff Proposal is being submitted to you as "Buyer" for onward submission to NEPRA under Rule 3 (4) of NEPRA (Import of Electric Power) Regulations, 2017.
- b. That the tariff is submitted to you in accordance with the NERPA (Import of Power) Regulations, 2017 and Upfront Tariff (Approval & Procedure) Regulations, 2011 for the unconditional acceptance of NEPRA Upfront Tariff for Small Hydropower Projects (the "Upfront Tariff").

c. That the CPPA-G is requested to submit the Company's Tariff Proposal and the Company's Upfront Tariff Application (necessary annexures) to NEPRA for its acceptance.

Yours Sincerely,

(Syed M. Hussain Gardezi)

Director (Development)

CTO
CFO
CLO
Company Secretary
DG HR/Admn
Chief Information Officer
SO Technical
Advisor Treasury
Manager SMD
Manager ERP

 $\textbf{\it Encl: 4 Sets of RHPCO Tariff Proposal \& Annexure-III of NEPRA~Up front~Tariff~Application.}$

Cc:

Office Copy.



TARIFF PROPOSAL

IN RELATION TO:
IMPORT OF ELECTRICITY
FROM
7.08 MW RIALI - II HYDROPOWER PROJECT
MUZAFFARABAD, AZAD JAMMU & KASHMIR

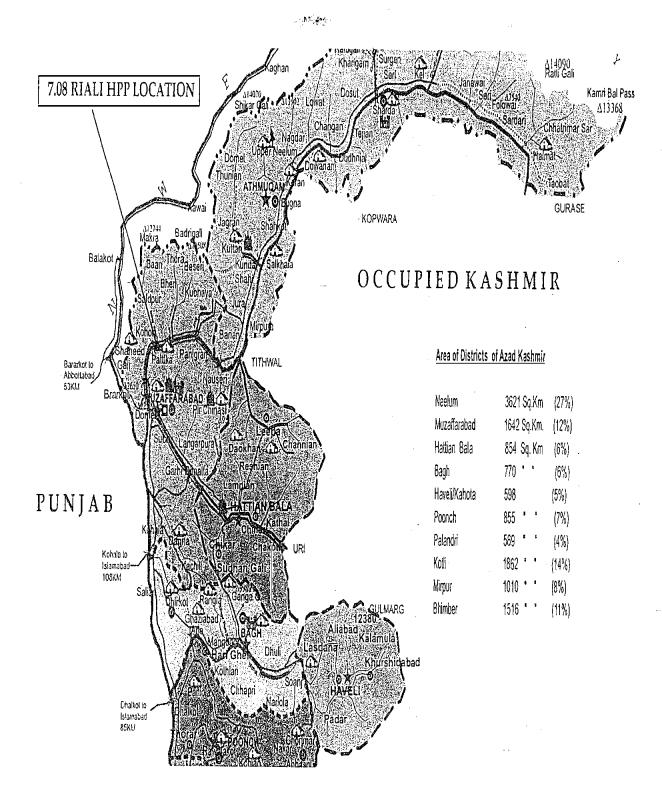


BEFORE CENTRAL POWER PURCHASING AGENCY GUARANTEE LIMITED

17 MARCH 2018

Riali Hydropower Company Limited 59-E, Street 7, I-10/3, Islamabad Ph no: 051-4436004, fax no: 051-4431774 E-mail: <u>rialihydro@hotmail.com</u>

· 7.08 MW RIALI- II HYDROPOWER PROJECT, AJK SITE LOCATION



ABBREVIATIONS

AJKPPC | Private Power Cell of the Government of Azad Jammu & Kashmir

COD Commercial Operations Date

Company Riali Hydropower Company Private Limited ("RHPCO")

CPPA Central Power Purchasing Agency Guarantee Limited

DISCO Distribution Company

EPA Energy Purchase Agreement

EPC Engineering Procurement & Construction

GOP Government of Pakistan

GWh Giga Watt hour; (1,000,000 kilowatt hours)

IDC Interest During Construction

IPP Independent Power Producer

KIBOR Karachi Interbank Offered Rate

KWh Kilowatt hour

LIBOR London Interbank Offered Rate

LOI Letter of Interest

E&M Electrical & Mechanical

MW Mega Watt (1000 kilowatts)

NEPRA National Electric Power Regulatory Authority of Pakistan

NEPRA Act Regulation for Generation, Transmission and Distribution of Electric

Power Act (XL of) 1997

O&M Operation & Maintenance

PESCO Peshawar Electric Supply Company

POE Panel of Experts

POWER PRODUCER | Riali Hydropower Company Private Limited ("RHPCO")

ROEDC Return on Equity During Construction

US CPI United States Consumer Price Index

·1. Introduction

F/I

1.1 Grounds for Proposal

This tariff proposal ("Proposal") is being submitted to Central Power Purchasing Agency Guarantee Limited ("CPPA") in relation to the procurement of power from a 7.08 MW hydropower facility proposed to be set up at Ghoriwala Katha in District Muzaffarabad, Azad Jammu and Kashmir ("Project").

Under the Regulation of Generation, Transmission and Distribution of Electric Power Act (Act No. XL) of 1997 (the "NEPRA Act") and NEPRA (Import of Power) Regulations, 2017, the CPPA is requested to submit the Proposal to NEPRA Authority to determine *inter alia* tariffs and other terms and conditions for the purchase of electricity from the Project.

The National Electric Power Regulatory Authority (hereinafter referred to as the "Authority") vide its determination dated April 02, 2015 had approved Upfront Tariff for Small Hydro Power Generation Projects up to 25 MW Installed Capacity (hereinafter referred to as the "Upfront Tariff'), which was reviewed through the Authority's subsequent decision in the matter of Motions for Leave for Review filed by Riali Hydro Power Company (Pvt.) Limited (RHPCO) and Kathai-II Hydro (Pvt.) Limited (KHL) dated October 14, 2015.

In view of the Project's location i.e., AJK (where the jurisdiction of NEPRA does not extend), the tariff proposal is being submitted to the Power Purchaser (CPPA) as import of electricity into its system as per mechanism envisaged under the NEPRA Act and Regulations including NEPRA's Upfront Tariff (Approval and Procedure) Regulations, 2011.

1.2 Project Company & Sponsors

The Project is being developed by Riali Hydro Power Company (Private) Limited ("RHPCO"). The RHPCO ("Project Company") is a limited liability company incorporated under the laws of Pakistan. Major sponsor of the Project is Sachal Engineering Works (Private) Limited; one of the renowned construction companies of Pakistan having extensively worked on infrastructure development projects mainly related to construction of highways and bridges.

1.3 Contribution of IPPs in the Power Sector of Pakistan

1.3.1 Hydropower - Energy Security of Pakistan

Hydropower is a perpetual source of energy which renews itself and does not produce harmful emissions. In the face of rising concerns on global warming due to greenhouse affects, continuous reliance on the use of fossil fuels for energy generation is not a preferred choice even for developed economies. When oil prices rise to exorbitantly high level, heavy dependence on its import causes

budget upsets for the developing and developed countries alike that too compels them to explore and tap other means of energy.

The benefits of hydropower for developing economy like Pakistan, which has too limited fiscal resources for expensive imports of oil are multi-faceted. Dependence on imported oil does not provide energy security that must be ensured for future of the country. Despite large un-tapped hydropower potential, the country remains in the grip of severe energy crisis resulting in extended hours of power cuts that have crippling effects on the overall economic and industrial activities. It is anticipated that exploitation of hydropower potential shall significantly reduce the cost of energy in future and drastically cut the oil import bill.

Hydropower plants are known for their agility and long life. Operation of a hydropower plant is preferred over thermal facilities to meet the peaking demands due to short ramp up time. Hydropower plants are also recognized for their black start operation which means that they can operate in isolation without drawing on an outside power source. Hydropower is thus an important and integral part of a generation system with energy mix from various sources.

Hydropower is considered to be the cheapest source of electricity in terms of per unit cost over the life span of a commercial facility compared with other alternatives such as RFO or Gas. The operation and maintenance cost of a hydropower generation facility is many times less. Hydropower, however, requires significant initial investment of which the debt part is the major liability. When the debt is retired, the cost of energy reduces significantly giving long term energy security.

1.4 Hydropower IPPs in AJK

Although the entire Northern region is blessed with abundant hydro potential, the hydro sites in AJK are considered to be more attractive for private sector investment. This is mainly due to convenience of transmission / despatch from the sites to the urban load centres.

Hydro IPPs which have already been commissioned and under construction or in the process of achieving financial close are given Table 1-1 as under:

Table 1-1: List of Hydro IPPs At various Development Stages

Satus	Site	Capacity (MW)
	Khari-I	1
Commissioned:	New Bong Escape	84
	Parind	147
	,	
Under Construction	Gulpur	100
	Karot	720
	Khari-II	2.5
	Kohala	1124
Projects heading for financial Close	Mahl	590
	Riali-II	7.08

1.5 7.08 MW Riali-II Hydropower Project, AJK

Riali Hydro Power Company (Private) Limited is a project venture of the Sachal Group and was incorporated as a private limited company in 2012 under the Companies Ordinance, 1984. The company, in essence, is a special purpose vehicle ("SPV") to set up a Run-Off-The-River 7.08 MW Hydropower Plant near Muzaffarabad ("the Project") as an IPP. A design discharge of 2.8 m³/s shall be utilized to generate 37.73 GWh annual energy with plant factor of 61%.

The Project shall be implemented on BOOT (Build, Operate, Own, and Transfer) basis with a concession period of thirty years and construction period of three years.

The Project is a high head, run-off-river scheme, which will use the perennial flow of Ghoriwala Katha, a right bank tributary of Neelum River with its confluence with Neelum River about 17 kms upstream of Muzaffarabad near Ghori Bazar. The project is proposed in the lower reach of Ghoriwala Katha with intake near village Bagh and Powerhouse near village Ghori 400 meters upstream of the confluence of Ghoriwala Katha with Neelum River.

Major development activities like land acquisition, interconnection studies, mobilization of EPC at Project site has already been completed and the Sponsors of the Project are aggressively targeting to achieve financial close in the shortest possible time.

1.5.1 Project Infrastructure - Civil Works

7.08 MW Riali II Hydro Power Project is proposed in the lower most stretch with intake about 300 meters upstream of bridge near Bagh village. The infrastructures to be developed for the project include the following:

- Diversion weir to divert design flow into a head race (power channel). The diversion weir shall ensure release the environmental compensation discharge for the downstream users.
- A gated intake sluicing facility for regulating/control of flow with an approach channel.
- De-sanding basin with flushing facilities.
- More than 4000 Meter headrace Channel on the left bank of the gorge through which Ghoriwala Katha meanders down and confluences with Neelum River.
- A forebay at the end of Headrace. The forebay is a head-pond for smoothing out the load fluctuations. It also provides a waste way pipe line to allow excess water to flow down to Ghoriwala Katha.
- 802 meters long steel penstock line with bifurcation near power house end.
- Power house with facilities to install entire E / M equipment and 6.6/33 kV switch yard for interconnection with the grid.
- Temporary facilities for project construction
- Residential quarters, Mosque and offices

•1.5.2 Electro-Mechanical Plant and Equipment

The main electro-mechanical plant to be installed for the Project shall include the following:

- Two sets of spherical Inlet valve with a provision for by-pass.
- Two sets of double jet, horizontal shaft Pelton turbine with accessories such as thrust and guide bearings and fly wheels.
- Two sets of PID Governors for turbine speed control during load fluctuation
- Two sets of servomotors and their accessories for control of water jet through needle cone.
- Two sets of synchronous AC Generators.
- Two sets of unit step up transformers.
- Complete sets of unit protection switch gear.
- Complete sets of 6.6 and 33 kV switch gear.
- Complete sets of protection, monitoring, metering and control cubicles for central control.
- 33 kV Interconnection along with in/out bays
- Two sets of spherical Inlet valve with a provision for by-pass.
- Two sets of double jet, horizontal shaft Pelton turbine with accessories such as thrust and guide bearings and fly wheels.
- Two sets of PID Governors for turbine speed control during load fluctuation
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- Two sets of synchronous AC Generators.
- Two sets of unit step up transformers.
- Complete sets of unit protection switch gear.
- Complete sets of 6.6 and 33 kV switch gear.
- Complete sets of protection, monitoring, metering and control cubicles for central control.
- 33 kV Interconnection along with in/out bays

1.5.3 Type of Plant, Installed Capacity and Annual Energy

The project is designed as a Run-Off-River Scheme and a discharge of $2.8 \text{ m}^3/\text{s}$ ($1.4 \text{ m}^3/\text{s}$ / unit), which is available for 40% of time on the flow duration curve and a net head of 304m. The unit capacity shall be 3.54 MW each. The total installed capacity is 7.08 MW with net annual energy of 37.74 GWh at a plant factor of 61%.

1.5.4 The Power Purchaser

The Central Power Purchasing Agency (Guarantee) Limited ("CPPA") is the Power Purchaser on behalf of ex-Wapda distribution companies to purchase the Net Electrical Output from the Project. CPPA is a Company incorporated under the Companies Ordinance, 1984 and wholly owned by the Government of Pakistan (the "GOP"). Since June 2015, CPPA has assumed the business of National Transmission and Dispatch Company (the "NTDC") pertaining to the market operations. The Company performs power procurement and payment on behalf of DISCOs.

The power will be supplied in the national grid through the Peshawar Electric Supply Company ("PESCO") which is the relevant DISCO operating in that region.

1.5.5 Connectivity with the National Grid

Three alternatives were considered for connection to the national grid:

Alternative	Evacuation Voltage
Alternative-I	11 kV D/C to 35 Muzaffarabad
Alternative-II	132 kV In-Out Jagran- Muzaffarabad S/C
Alternative-III	33 kV D/C to Muzaffarabad (Old) Grid (17km)

Table 1.2

Alternative-III with an evacuation voltage of 33kV has been considered the most economically and technically feasible. The alternative provides good reliability and stability. This connection will also be able to accommodate the evacuation of future adjoining hydro power plants. The capacity of 33kV double circuit is about 35 MVA per circuit and is adequate to transmit the total power of nearly 22 MW. Further, this alternative has been recommended and approved by NTDC and PESCO.

1.6 Benefits of Project

The Project will provide much needed electricity from indigenous hydro resources to the National Grid. The Grid connection shall ensure supply to Muzaffarabad City according to the demand. Other major benefits to the National Economy are:

- Saving of foreign exchange as replacement of cost of fuel of an equivalent thermal plant.
- Upgradation of infrastructure in the project area.
- Reduced emissions due to less burning of fossil fuels.
- Introduction of direct and indirect employment opportunities for the project affected people.
- The Project will be a valuable asset for the grid network as the energy would be dispatched in economic preference to oil-fired thermal power stations.

1.6.1 Payments and benefits to AJK Government

As per 2002 / 2015 Power Policy(s), the AJK government will be receiving water use charges as well as the power generation facility will be handed over to the State ownership for a nominal amount of Rs. one (1) only. Since hydropower projects are known to have longer economic and operational life (50 – 100 years), the ownership of the 'power plant' after concession period is a major benefit for the State Government.

1.7 Project History

- The Letter of Interest to conduct the detailed feasibility study was issued by AJK Private Power Cell on 26 April 2002. The feasibility study of the Project was carried out by a leading group of consultants in accordance with the recognized international standards. The feasibility study supported with field data on hydrology and area topography initially suggested an installed capacity of 4.8 MW.
- A special purpose company, namely Riali Hydropower Company ("RHPCO" or the "Project Company") was incorporated to develop, own, and operate the Project. The Project Company maintains its corporate office at <u>59-E</u>, <u>Street</u>: 7, Sector I-10/3, <u>Islamabad</u>, <u>Pakistan</u>.
- Feasibility stage tariff petition was then filed by RHPCO before the Peshawar Electricity Distribution Company ("PESCO") for 4.8 MW Project which was forwarded to NEPRA for approval. The feasibility stage levelized tariff of US Cents 6.8391/kWh was finally approved by NEPRA on 23.11.2011.
- As RHPCO was preparing to negotiate the PPA with PESCO, which until then was the designated 'power purchaser', PESCO formally declined to enter into the PPA which prevented the Project Company to make further progress.
- RHPCO, however, remained steadfast in its resolve to develop the Project and approached the Federal Ministry of Water and Power for a way forward. After holding a series of meeting with the representatives of PPIB, NTDC and CPPA, it was finally agreed that that CPPA/NTDC shall enter into PPA (on behalf of the respective DISCOS i.e., PESCO in the case of the Project.

- The LOS was issued to RHPCO on 9th April 2013 by AJK Private Power Cell. Under the provisions of LOS, the Sponsors were required to achieve financial close of the Project within eighteen months from the date of issuance. However, progress on negotiating and signing the PPA, IA and WUC remained stalled due to the NTDC's limitation to allow interconnection of proposed IPPs below 132 kV. The issue was then referred to NEPRA for proposing changes in the NTDC's license to allow interconnection at 33 or 11 kV.
- While, the issue of designating a Power Purchaser was being resolved, RHPCO decided to revalidate some of the technical parameters of the Project including a review of the design discharge.
- The review of design parameters enabled RHPCO to upgrade the installed capacity from 4.8 MW to 7.08 MW. In addition to derived data, the upgraded installed capacity is supported by about 12 years of observed hydrology through stream gauging being fixed and monitored for the last 12 years.
- The upgraded installed capacity of 7.08MW was approved by the POE of GoAJK on 09-11-2016. The POE of GoAJK includes members from environment, engineering as well as PPIB and CPPA. RHPCO has applied to PPIB for the issuance of tripartie LOS in accordance with the Facilitation Agreement signed between GoAJK and PPIB. The process of tripartite LOS by PPIB is progressing concurrently with this tariff proposal.
- The Sponsors has negotiated and arranged project financing facility through Pak-Brunei Investment Company Limited, which is nominated as a Lead Lender. The financing facility is based on State Bank Scheme for renewable energy projects.
- EPC is now mobilized at site and Sponsors through their own equity has completed significant works at site, such as completion of all project related earth works and structural works at forebay.
- The Sponsors are in the process of negotiating the project agreements i.e. Energy Purchase Agreement (EPA), Implementation agreement (IA) and other financing arrangements in parallel.

RIALI HYDROPOWER COMPANY (PVT.) LIMITED

Project Details

Project Name	Riali-II Hydropower Project
Installed Capacity (Gross) (MW)	7.08
Auxiliary Consumption	1%
Net Capacity (MW)	7.01
Plant Factor	61%
Annual Generation (Gross) (GWh)	38.12
Auxiliary Consumption (1%) (GWh)	0.38
Annual Generation (Net) (GWh)	37.74
Reference KIBOR	6.73%
Spread	3.5%
EPC Cost	US\$ 17.0557 million
Soft Cost	US\$ 1.5151 million
Interest During Construction (IDC)	US \$ 2.5844 million
Total Project Cost	US \$ 21.1552 million
Debt	75%
Equity	25%
Total Debt (Local)	US \$ 15.8664 million
Total Equity	US \$ 5.2888 million
Construction Period (Maximum)	3 Years from Financial Close
Debt Payback Period	10 years from COD
Tariff Control Period	30 Years from COD
Project Upfront Tariff (Reference)	9.8109 Rs./kWh 9.6233 USc/kWh
Exchange Rate	1US\$ = PKR 101.95
Variable O&M	Per Annum (US\$)
- Local	35,619
- Foreign	35,619
Fixed O&M	Per Annum (US\$)
- Local	170,970
- Foreign	42,742
Total O&M Cost	US\$ 284,950
Insurance During Operation	US\$ 230,252

RIALI HYDROPOWER COMPANY (PVT.) LTD. (Riali-II Hydropower Project) REFERENCE UPFRONT TARIFF

_		7.08 MW R		ROPOWER	ALI-II HYDROPOWER PROJECT (P/F 61%)	'/F 61%)				
		UPFRONT	UPFRONT TARIFF TABLE BASED ON 100% LOCAL FINANCING	BASED ON 1	30% LOCAL FI	NANCING				
	Energy Purchase Price	chase Price			Capacity	Capacity Purchase Price				
	Variable	Variable	Fixed	Fixed		Dofins on	Principal		Total	
	OEM	OEM	OEM	ОЕМ	Insurance	Faulty (ROE)	Repayment	Interest		Total Tariff
Year	Local	Foreign	Local	Foreign						
	Rs/kWh	Rs/kWh	Rs/kWh	Rs/kWh	Rs/kWh	Rs/kWh	Rs/kwh	Rs/kWh	Rs/kWh	USC/kWh
	0.0962	0.0962	0.4619	0.1155	0.6220	3.8993	2.6093	4.2867	12.1871	11.95
- 7	0.0962	0.0962	0.4619	0.1155	0.6220	3,8993	2.8867	4.0094	12.1871	11.95
. m	0.0962	0.0962	0.4619	0.1155	0,6220	3.8993	3.1935	3.7026	12.1871	11.95
. 4	0.0962	0.0962	0.4619	0.1155	0.6220	3.8993	3.5329	3.3631	12.1871	11.95
ın	0.0962	0.0962	0.4619	0,1155	0.6220	3.8993	3.9085	2.9876	12.1871	11.95
· v o	0.0962	0.0962	0.4619	0.1155	0.6220	3.8993	4.3239	2.5721	12.1871	11.95
	0.0962	0.0962	0.4619	0.1155	0.6220	3.8993	4,7835	2.1126	12.1871	11.95
, ας	0.0962	0,0962	0.4619	0.1155	0.6220	3.8993	5.2920	1,6041	12.1871	11.95
	0,0962	0.0962	0.4619	0.1155	0.6220	3.8993	5,8544	1.0416	12.1871	11.95
, 0	0.0962	0.0962	0.4619	0.1155	0.6220	3.8993	6.4767	0.4193	12.1871	11.95
-	0.0962	0,0962	0.4619	0.1155	0.6220	3.9709	į.		5.3627	5.26
. 12	0.0962	0.0962	0.4619	0.1155	0.6220	3.9709		,	5.3627	5.26
, T	0.0962	0.0962	0.4619	0.1155	0.6220	3.9709		ı	5.3627	5.26
. 4	0.0962	0.0962	0.4619	0.1155	0.6220	3.9709	1	ı	5.3627	5.26
	0.0962	0.0962	0.4619	0.1155	0.6220	3.9709		1	5.3627	5.26
16	0.0962	0,0962	0.4619	0.1155	0.6220	3.9709	r	,	5.3627	5.26
17	0.0962	0.0962	0.4619	0.1155	0.6220	3.9709	,	ı	5.3627	5.26
	0.0962	0.0962	0.4619	0.1155	0.6220	3.9709	1	,	5.3627	5.26
C.F.	0.0962	0.0962	0.4619	0.1155	0.6220	3.9709	ı	1	5.3627	5.26
20	0.0962	0.0962	0.4619	0.1155	0.6220	3.9709	,	ı	5.3627	5.26
21	0.0962	0.0962	0.4619	0.1155	0.6220	3.9709	1	ı	5.3627	5.26
2.2	0.0962	0.0962	0.4619	0.1155	0.6220	3.9709	*	1	5.3627	5.26
23	0.0962	0.0962	0.4619	0.1155	0.6220	3.9709	1	ı	5.3627	5.26
24	0.0962	0.0962	0.4619	0.1155	0.6220	3.9709	ı	,	5.3627	5.26
25	0.0962	0.0962	0.4619	0,1155	0.6220	3,9709	•	ı	5.3627	57.5
26	0.0962	0.0962	0.4619	0.1155	0.6220	3.9709	,	ı	5.3627	5.26
27	0.0962	0.0962	0.4619	0.1155	0.6220	3,9709	F		5.3627	5.26
28	0.0962	0.0962	0.4619	0,1155	0.6220	3.9709	1	ı	5.3627	5.26
29	0.0962	0.0962	0.4619	0.1155	0.6220	3.9709	1	,	5.3627	5.26
30	0.0962	0.0962	0.4619	0.1155	0.6220	3.9709	•	ı	5.3627	5.26
Levilized Tariff (Rs/kWh)	0.0962	0.0962	0.4619	0.1155	0.6220	3.9242	2.5821	1.9128	9.8109	9.6233
evilized Tariff (USc/kWh)	0.0944	0.0944	0.4530	0.1133	0.6101	3.8492	2.5327	1.8763	9.6233	
בפת ומו ווו לכבה יייי										

Levelized Tariff (1-30 years) discounted at 10% per annum = US Cents 9.6233/kWh at reference exchange rate of 1US\$=Rupees 101.95.



RIALI HYDROPOWER COMPANY (PVT.) LTD. (Riali-II Hydropower Project) Reference Debt Servicing Schedule – Local Financing (10 Years)

						0%{Local}Fin		
的對為		Forti	ne Purpose o	filndexation	of Debt Com	ponent Only		
	Principal	Posse servet	Markup	Balance	Delat San dan	Anuual	Anuuai	Anuual
Pericol	Million Rs	Repayment Million Rs	Million Rs	Million Rs	Debt Service Million Rs	Principal	Interest	Debt Servicing
	IANIIIGIAG	MINICIAN	IAMING LEZ	IVIIII GTRS	IVIIIIGTES	Repayment Rs./kWh	Rs./kWh	Rs./kWh
1	1,617.59	23.69	41.37	1,593.89	65.06			
2	1,593.89	24.30	40.76	1,569,59	65.06			
3	1,569.59	24.92	40.14	1,544.67	65.06			·
4	1,544.67	25.56	39.50	1,51 9.11	65.06			
1	1,617.59	98.48	161.78	1,519.11	260.26	26093	4.2867	6.896
5	1,519.11	26.21	38.85	1,492.90	65.06			
6	1,492.90	26.88	38,18	1,466.02	65.06			-· <u>-</u>
7	1,466.02	27.57	37.49	1,438.44	65.06			
8	1,438.44	28.28	36.79	1,410.17	65.06			
2	1,519.11	108.94	151.31	1,410.17	260.26	28867	4.0094	<u>6.896</u>
9	1,410.17	29.00	36.07	1,381.17	65.06			
10	1,381.17	29.74	35.32	1,351.43	65.06			<u></u>
11	1,351.43	30.50	34.56	1,320.93	65.06			
12	1,320.93	31.28	33.78	1,289.65	65.06			
. 3	1,410.17	120.52	139.73	1,289.65	260.26	3.1935	3.7026	6.896
13	1,289.65	32.08	32.98	1,257.56	65.06			*
14	1,257.56	32.90	32.16	1,224.66	65.06			:
.15	1,224.66	33.74	31.32	1,190.92	es.06	<u> </u>		
16	1,190.92	34.61	30.4 6	1,156.31	65.06	-		
4	1,289.65	133.33	126.92	1156.31	260.26	3.5329	3.3631	6.896
17	1156.31	35.49	29.57	1120.82	65.06			
. 18	1120.82	36.40	28.67	1084.42	65.06			
19	1084.42	37.33	27.73	1047.09	65.06			
. 20	1047.09	38.28	26.78	1008.81	65.06			
5	1156.31	1 47.51	112,75	1008,81	260.26	3,9085	2.9876	6,896
21	1008.81	39.26	25.80	969,54	65.06		_	
22	969.54	40.27	24.80	929.28	65.06			
23_	929.28	41.30	23.77	887 .98	65.06			
24	887.98	42.35	22.71	845.62	65.06			
6	1008.81	163.18	97.07	845.62	260.26	4.3239	2.5721	<u>6,896</u>
25	845.62	43,44	21.63	802.19	65.06			·
	802.19		20.52	757.64		·		
27	757.64	45.69	19.38	<u>711.</u> 95	65.06			
28	711.95	<u>4</u> 6.86	18.21		65.06			
7	845.62	<u></u>	79.73	665,09		4.7835	2.1126	6,896
29	665.09	48.05	17.01	617.04				
30	617.04	49.28	15.78	557.76	L		·	
31	567.76		14.52	517.21				
. 32_	517.21	51.84	13.23	465.38				-
8	665.09		60.54	465.38		5.2920	1.6041	6,896
33	465.38		11.90	412.21				
34	412.21		10.54	357.69	· 	ļ		
35	357.69		9.15	301.78		<u> </u>		
36	301.78		7.72	244.43		<u> </u>		
9	465.38		39.31	244.43		5.8544	1.0416	6,896
37	244.43		6.25	185.62			,	
38	185.62	60.32	4.75	125.30		 		
	125.30		3.20	63.44	<u> </u>	<u> </u>		
40	63.44		1.62	0.00				<u> </u>
10	244.43	244.43	15.83	0.00	260.26	6.4767	0.4193	<u>6.89</u>



Annex-VII A
UPFRONT TARIFF FOR HIGH HEAD HYDROPOWER PROJECTS (1 TO 25 MW) BASED ON 100% LOCAL FINANCING
REFERENCE TARIFF

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	Total	Tariff	Rs./kwn	14.9794	14.9794	14.9794	14.9794	14.9794	14.9794	14.9794	14.9794	14.9794	14.9794	6.5968	6.5968	6.5968	6.5968	6.5968	6.5968	6.5968	6.5968	6.5968	6.5968	6.5908	0.0300	0.5908	0.5968	6.5968	6.5968	6.5968	6.5968	6.5968	6.5968	12.0606
T	Interest		Rs./kwn	5.2693	4.9283	4.5512	4.1339	3.6723	3.1617	2.5967	1.9718	1.2804	0.5154	•	ı	ı		•	!	1	•		ı	•	•		,	ı	1	•	ı	1		2.3513
 	Principal	Repayment	Rs./kWh	3.2074	3.5483	3.9255	4.3427	4.8043	5.3149	5.8799	6.5049	7.1963	7.9612	1	1	1	•	•	•	1	•	1	•	1	1	,	•	ı	1	1	ı			3.1739
Capacity Purchase Price	Return on	Equity (ROE)	Rs./kWh	4.7918	4.7918	4.7918	4.7918	4.7918	4.7918	4.7918	4.7918	4.7918	4.7918	4.8859	4.8859	4.8859	4.8859	4.8859	4.8859	4.8859	4.8859	4.8859	4.8859	4.8859	4.8859	4.8859	4.8859	4.8859	4,8859	4.8859	4.8859	4.8859	4.8859	4.8245
Capacity Pu		insurance	Rs./kWh	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7648	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646	0.7646
-	Fixed	Coneign	Rs./kw/h	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419	0.1419
	Fixed	Coal	Re /kWh	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678	0.5678
shase Price	Variable	O&M	Re /k/M/h	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0,1183.	0.1183	0.1183	0.1183	0.1183	0.1183
Energy Purchase Price	Variable	OEM	De /////h	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183	0.1183
		Year		-	- ~	1 67	1 4	. 13	ေဖ	, ,	. &	6	10	-	: 21	1 5	. 4	15	16	17	18	19	20	21	22	23	24	25	26	27	23	29	30	Levelized Tariff

Annex-VII B UPFRONT TARIFF FOR HIGH HEAD HYDROPOWER PROJECTS (1 TO 25 MW) BASED ON 100% LOCAL FINANCING

			Local Dept			on of Debt Compo Annual	1	
	Police simple	D 1	BB and all the	Dala-as	Debt	Principal	Annual	Annual Debt
eriod	Principal	Repayment		Balance	Service	Repayment	Interest	Servicing
	Million Rs.	Million Rs.	Million Rs.	Million Rs.	Million Rs.	Rs./kWh	Rs./kWh	Rs./kWh
_	228.45	3.35	5.84	225.11	9,19		,	_
	225,11	3.43	5.76	221.68	9.19			
]	221.68		5.67	218.16	9.19	Ì		
	218.16	3.61	5.58	214.55	9.19			
1	228.45	13.91	22.85	214.55	36.76	3,2074	5.2693	8.476
_	214.55		5.49	210.84	9.19			
1	210.84		5.39	207.05	9.19		l	
	207.05		5.30	203.15	- 9.19			
ļ	203,15	3.99	5.20	199.16	9.19.			
	214.55	15.39	21.37	199.16	36.76	3.5483	4,9283	8.476
	199.16		5.09	195.06	9.19			
	195.06		4.99	190.86	9.19)		
	190.86		4.88	186.56	9.19			
l	186.56	4.42	4.77	182.14	9.19			
	199.16	17.02	19.73	182.14	36.76	3,9255	4.5512	8.476
~	182.14	1	4.66	177.61	9.19	0.0200		
	177.61	4.65	4.54	172.96	9.19			
	172.96	4.77	4.42	168.20	9.19	•		
	168.20	4.89	4.30	163.31	9.19]		
		18.83	17.93	163.31	36.76	4.3427	4.1339	8 476
4	182.14	5.01	4.18	158.30	9.19	7.3421	4.1000	
	163.31 158.30			153.15	9.19			
	153.15		4.05 3.92	147.88	9.19		l	
	147.88	5.41	3.78	142.48	9.19			
	163.31	20.83	15.92	142.48	36.76	4.8043	3.8723	8 4769
٦				136.93	9.19	4,0043		
	142.48		3.64					
	136.93	5.69	3.50	131.24	9.19		'	
	131.24		3.36	125.41	9.19			
	125.41	5.98	3.21	119.43	9.19	F 04.40	2 4047	8.4766
- 6	142.48	23.05	13.71	119.43	36.76	5.3149	3.1617	<u>. 8.4/</u> pt
	119.43	1	3.05	113.29	9.19			
	113.29		2.90	107.00	9.19			
	107.00	I	2.74	100.55	9.19			
	100.55		2.57	93,93	9,19			0.470
7	119.43	25.50	11.26	93,93	36.76	5.8799	2.5967	8.4768
	93.93		2.40	87.15	9.19			1
	87.15		2.23	80.19	9.19			
	80.19		2.05	73.05	9.19			1
	73.05		1.87	65,73	9.19	0.50:0	1 0712	
8	93.93		8.55	65.73	36.76	6.5049	1.9718_	8.476
	65.73			58.22	9.19		,	
	58.22		1.49	50,52	9.19			
	50.52		1.29	42.62	9.19			
	42.62		1.09	34.52	9.19		L	
9		- 1	5.55	34.52	36.76	7.1963	1.2804	8.476
	34.52		0.88		9.19			
	26.22		0.67	17.70	9.19			
	17.70			8.96	9.19			
	8.96			0.00		7 5045	0.545	<u> </u>
10	34.52	34.52	2.24	0.00	36.76	7.9612	0.5154	8.476



Indexations & Adjustments

(Ref: No. NEPRA/UTH-01/15031-15033 October 14, 2015)

The tariff will be allowed a onetime adjustment at COD, but will then remain unchanged throughout the tariff control period. However, indexations for the following components will be allowed on a quarterly basis:

Table 2.0

Component	Indexation + -
Variable O &M	
- Local	CPI (General)
- Foreign	US CPI and PKR/US\$
Fixed O&M	
- Local	CPI (General)
- Foreign	US CPI and PKR/US\$
Insurance	PKR/US\$
Return on Equity	PKR/US\$
Debt Servicing	Local Debt
- Principal	-
· - Interest Payments	3 Months KIBOR

2. Adjustment for variation in Dollar/Rupee parity

Relevant components of the tariff shall be adjusted at commissioning of the Project on account of actual variation in PKR/USD parity with reference to the assumed rate of PKR/USD of Pak Rs. 101.95.

2.1 One Time Adjustment of Tariff after COD

With reference to the total EPC Costs, the tariff will be allowed a onetime adjustment after COD in the following manner:

- 40% of the assumed EPC Cost will be adjusted over 36 months starting from the date of financial close of the project for USD/PKR variation
- 60% of the assumed EPC Cost will be converted at an exchange rate of PKR 101.95/USD and adjusted over a period of 36 months starting from the date of financial close of the project according to the below formula.

$$Pn = 0.51 + 0.10 * (Cn/Co) + 0.09 * (Sn/So) + 0.15 * (Fn/Fo) + 0.15 * (Ln/Lo)$$

Where:

Pn	Adjustment Factor to be applied for civil works					
Cn	Index value for the relevant month for Cement as given in the Monthly Bulletin of Statistics published by the Pakistan Bureau of Statistics					
Sn	Index value for the relevant month for Steel Bar & Sheets as given in the Monthly Bulletin of Statistics published by the Pakistan Bureau of Statistics					
Fn	Index value for the relevant month for Diesel Oil as given in the Monthly Bulletin of Statistics published by the Pakistan Bureau of Statistics					
Co, So, Fo, Lo	Reference values of the price indices for Cement, Steel Bar & Sheets, Diesel Oil and Mason (Raj) respectively as available at the time of financial close of the project					

Adjustments will be made on quarterly basis and where applicable, the amounts will be spread equally into quarters.

All other project costs, excluding IDC (Interest during Construction) will be considered as local costs and shall not be adjusted in any way.

The tariff allowed to the company, after onetime adjustment where applicable, will remain unchanged throughout the tariff control period, except for the adjustments due to indexations/adjustment. The indexations of O&M, return on equity, principal repayment of debt and interest will be allowed on quarterly basis. Insurance component will be adjusted annually.

Interest During Construction (IDC) will be adjusted based on the combined impact of the allowed financing mix and One-Time adjustment of EPC cost.

2.2 Indexation applicable to Fixed O&M

FOM (LREV)	FOM (LREF)* CPI-G (REV)/ CPI-G (REF)
FOM (EREV)	FOM (FREF) * US CPI (REV) / US CPI (REF) * ER (REV) / ER (REF)
Where	
FOM (LREV)	The revised applicable fixed 0 & M local component of tariff
FOM (EREV)	The revised applicable fixed 0 & M foreign component of tariff
FOM (LREF)	The reference fixed 0 & M local component of tariff for the relevant period
FOM (FREF)	The reference fixed 0 & M foreign component of tariff for the relevant period
CPI-G (REV)	Revised Consumer Price Index (General) based on latest available information with respect to Consumer Price Index General) as notified by the Pakistan Bureau of Statistics
US CPI (REV)	Revised US CPI (all urban consumers) based on latest available information with respect to US CPI (notified by US Bureau of Labor Statistics)
ER (REV)	Revised TT & OD selling rate of US Dollar as notified by the National Bank of Pakistan as at the last day of the preceding quarter
CPI -G (REF)	Reference Consumer Price Index (General) – Current reference 199.66 Consumer Price Index (General) for the month of May 2015 as notified by the Pakistan Bureau of Statistics
US CPI (REF)	Reference US CPI (all urban consumers) — Current reference 237.805 US CPI (all urban consumers) for the month of May 2015 as notified by the US Bureau of Labor Statistics
ER (REF)	Reference TT & OD selling rate of US dollar — current reference 101.95

.2.3 Indexation applicable to Variable O&M

١	VOM (LREV)	VOM (LREF) * CPI-G (REV)/ CPI-G (REF)
•	VOM (FREV)	VOM (FREF) * US CPI (REV)/ US CPI (REF) * ER (REV) / ER(REF)
	Where	
	VOM (LREV)	The revised applicable variable 0&M local component of tariff
	VOM (FREV)	The revised applicable variable 0&M foreign component of tariff
	VOM (LREF)	The reference variable 0&M local component of tariff for the relevant period
	VOM (FREF)	The reference variable 0&M foreign component of tariff for the relevant period
	ı	

2.4 Adjustment of Insurance Component

In case of insurance denominated in US \$, insurance cost component of tariff will be adjusted only on account of US \$/PKR exchange rate variation annually, not exceeding the insurance cost actually incurred.

2.5 Indexations applicable to Return on Equity

$$ROE(REV) = ROE(REF) * ER(REV) / ER(REF)$$

Where:

	(7)
ROE (REV)	The revised applicable return on equity tariff component indexed with exchange
	rate parity
ROE (REF)	The reference return on equity tariff component for the relevant period
ER(REV)	Revised TT & OD selling rate of US Dollar as notified by the National Bank of
	Pakistan as at the last day of the preceding quarter
ER(REF)	Reference TT & OD selling rate of US dollar — current reference 101.95

2.6 Indexation Applicable to Local Interest

$$\triangle I = P (REV I * (KIBOR (REV) - 6.73\%) / 4$$

Where:

vvilere,	
ΔI	The variation in interest charges applicable corresponding to variation in
	3 months KIBOR. △I can be positive or negative depending upon
	whether 3 months KIBOR (Rev) per annum > or < 6.73%. The interest
	payment obligation will be enhanced or reduced to the extent of \triangle I for
	each quarter under adjustment.
P(REV)	Is the revised outstanding principal (as indicated in the attached debt
	service schedule to this order at Annex-II), after allowing onetime
•	adjustment for exchange rate parity, on a quarterly basis at the relevant
·	quarterly calculations date. Quarter 1 shall commence on the commercial
	operations date (i.e. the first figure will be used for calculation purposes
	of interest for the first quarter after COD).
KIBOR (R E V)	Revised 3 months KIBOR as at the last day of the preceding quarter

3. Hydrological risk

The hydrological risk shall be borne by the Power Producer, whereby all power generated by the Complex/Power Producer will be allowed to sell & procured by the Power Purchaser at the prevailing upfront tariff.

4. Adjustment on account of savings in cost of debt

The Project tariff has been worked out on the basis of 3 months KIBOR of 6.73% plus a premium of 350 basis points. In case the spread negotiated is less than the said limits, the savings in the premium over KIBOR shall be shared by the power purchaser and the power producer in the ratio of 60: 40 respectively. The power producer will submit relevant authentic documentary evidence to the Authority, for the aforesaid adjustment within 15 days of commercial operations date of the project. In case the premium on KIBOR is higher than that mentioned above, no adjustment on the basis of actual higher premium will be requested.

The interest during construction assumed for the purpose of tariff calculations is US\$ 0.365 Million per MW. The interest during construction will be reassessed at commercial operations date of the project with actual KIBOR and spread.

5. Adjustment on account of actual plant factor

The above tariff has been adjusted based on 61% plant factor of the project. The upfront tariff has been opted without finalization of detailed project design, therefore the power producer will submit request for onetime adjustment, within 15 days of the commercial operation's date of the project, accompanied by the revised panel of experts certificate regarding net annual plant factor, on the basis of detailed project design.

6. Pass Through Items

If the company is obligated to pay any tax on its income from generation of electricity from small hydro, or water use charges/IRSA charges/other such levies or charges, not being of refundable nature, are payable by the company for generation of electricity from small hydro or any duties and/or taxes, not being of refundable nature, are imposed on the company upto the commencement of its commercial operations for import of its plant machinery and equipment, the exact amount paid by the company on these accounts shall be reimbursed by the power purchaser on production of original receipts. This payment should be considered as a pass-through payment spread over a twelve months period. The payment on account of water use charges shall be spread equally over 12 months for each year. Furthermore, in such a scenario, the company shall also submit to the power purchaser details of any tax/levies/charges savings and the power purchaser shall deduct the amount of these savings from its payment to the company on account of taxation.

The adjustment for duties and/or taxes will be restricted only to the extent of duties and/or taxes directly imposed on the company. No adjustment for duties and/or taxes imposed on third parties such as contractors, suppliers, consultants, etc., will be allowed.

Correspondence & Records



Central Power Purchasing Agency (Guarantee) Limited

A Company of Government of Pakistan



OFFICE OF CHIEF EXECUTIVE OFFICER

No. CPPAGL/2017/CEO/RHPCO/ 🛪 🤉

Date: 2 6 - 05 -

The Registrar NEPRA NEPRA Office Building G-5/1, Attaturk Avenue (East), Islamabad

Subject: Consent of Purchase of Power in Respect of

7.08 MW Riall-II Small Hydropower Project District Muzaffarabad, AJK

- Pursuant to INEPRA's Upfront Tariff (Approval and Procedure) Regulations, 2011 (Consent of Purchase Power is hereby issued in respect of 7.08 MW Riall-II Hydropower 1. Project at Ghoriwalla Katha, Muzaffarabad AJK.
- Issuance of Consent to Purchase Power is subsequent to fulfilment of all requirements 2. under Guidelines/SOP for Power Procurement by CPPA-G under NEPRA Renewable Energy Companies Guidelines, 2015" issued by CPPA-G vide No. CPPA-G/ CS/2016/1965 dated 31-05-2016; and subject to the following conditions:
 - Back to back agreement between CPPA-G and relevant DISCOs for the evacuation of Power;
 - (ii) (ii) Approval of Grid Interconnection Study by the relevant DISCOs and NTDE:
 - Completion of other codal formalities as per applicable Policies, lows, Rules and Regulations,
 - CPPA-G will procure Power, on behalf of relevant DISCOs, from the project companies on iv) Take and Pay basis;
 - Based on the above necessary changes will be made in the EPA
- This is issued with approval, of Board of Directors, Central Power Purchasing Agency (Guarantee) Limited given under Board Resolution No. Mil/27 presented on 25th May 2017 and Facilities and Facilities (No. 25 CRPA G/2017/CS/1021-24) 3.

Chief Executive Officer

Copy to:

- Chief Executive Officer, PESCO, Sakhi Chasma, Shami Road Peshawer. Managing Director, PPIB, Emigration Tower, G-8/1 Islamabad.
- 3
- Chief Technical Officer, CPPA-G, Islamabad.
 Director General, Private Rower Cell, Upper Chatter, Muzaffarabad Aik.
- Company Secretary, CPPA-G, Islamabad.
- M/s Riali Hydro Power Company (Pvt) Limited, 59-E, Street 7, I-10/3 islamabad.
- Master File.

區 G^MFloor ENERCON Building, G-5/2 Islamabad . ■ 192-51-9216962 图+92-51-9216949 目 dgmtech ll@cppa.gov.pk E:\Bod EPPAGL PARYAIO PAR Riali:ILSHPP\Consent Letter To NEPRA Dock

AZAD GOVT. OF STATE OF JAMMU & KASHMIR PRIVATE POWER CELL

Chief-Executive Officer GPPA (G)-Etd 6tig-Floor Shaheed-e-Millal Secretariat, Jinnah Avenue-Brue-Aven

Subject: 7.08 MW RIAE THE HYDROPOWER PROTECT
UPPRONG TARGED BEAMINED BY NEPRA

This is in continuation to cour letter No. PFC/1871-73/2015 dated 11.14.2015 yide which Riall Hydro Power Company was recomended for grant of upfront lariff & filled up Annexures I & I were forwarded.

- 2 Thereafter the project company submitted updated Power &Energy Modelling Report for Riali-II. Hydro Power project on 05:05:2016; which has Been approved by Ranel of Expert(P⊙Es) constituted by GoAJK, on 09:11-2016(copyrenelosed).
 - Therefore we continue that our panel of experts has provided certificate regarding annual plant factor which is 61% of RIALI HYDRO POWER COMPANY (PVT) LTD for its project of 7.08 MW installed capacity to be located at Gliori wala Katha, Muzaffarabad, Azad Jammu & Kashmir and the Mean arrival Brergy is 38.12GWh Monthly Bench Mark Hydrology is the same as already conveyed vide above referred letter.

Naveed-ul-Zaffar Gillani Director General

. Secretary Electricity/FDO, GoAJK, Muzaffarabad... 2. Chairman NEPRA, OPF Building, O-5/1, Islamabad.
3. Chief Technical Officer (CTO), OPPA (G), Ground Floor Enercon Building,
Near State Bank of Pakistan, sector G-5/2, Islamabad.

4. Director Development, M/s Riali Hydro Power Compnay (Pvt.) Ltd, 59-E, Street-7, Sector I-10/3, Islamabad,



AZAD GOVT, OF STATE OF JAMMU & KASHMIR PRIVATE POWER CELL

PDO.Complex, Upper Challer Housing Golony, Muzaffarabad Tal: [05822] 921966 (05822) 921685 Fax: [05822] 921305 mail: ajk_ppc@holmail.com

Rel: PECL 767 6 12017 Dated: 14 1 2017

Chief Executive Officer CPPA (G) Ltd 604-Flaor, Shaheed e-Millar Secretarial, Jinnah Avenue, Blue Area, Islamabad.

Subject:

7:08 MW RIALI-II HYDROPOWER PROTECT -- ACCEPTANCE OF UPFRONT TARIFF DETERMINED BY NEFRA

This is further in continuation to our letter No.PPC/1601-5/2015 dated 06.12.2016 on the subject cited above (copy enclosed).

2. We hereby certify that Panel of Experts(POEs) appointed by GoAJK has confirmed that the monthly benchmark net deliverable energy(Gwh) is as thinder:

- 3				1-1)		<u> </u>		1.17		the second second				• •
- 1	12240.000	ATTENDED TO	and the	10 FEV2373	le 4	1		N				· · · · · · · · · · · · · · · · · · ·		īl.
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Naveed-ul-Zaffar Gillani Director General

C.C:

I. Secretary Electricity/PDO, GoAJK, Muzaffarabad.

2. Chairman NEPRA, OPF Building, G-5/1, Islamabad.

3. Chief Technical Officer (CTO), CPPA (G), Ground Floor Enercon Building, Near State Bank of Pakislan, sector G-5/2, Islamabad.

 Director Development, M/s Ridli Hydro Power Compnay (Pvt.) Ltd. 59-E. Street -7. Sector 1-10/3; Islamabad.



Central Power Purchasing Agency (Guarantee) Limited

A Company of Government of Pakisian



6th Floor, Shaheed e-Millat Secretariat, Jinnah Avenue, Blue Area, Islamabad

OFFICE OF CHIEF TECHNICAL OFFICER

No. CPPAGL/DGM-II/MT-IV/RHPCO/ IS278-80

Date:

03-02-201)

The Director General
Private Power Cell, AIK PDO Complex
Upper Chatter Housing Colony, Muzaffarabad, AIK

Project:

7.08 MW Riall-II Hydropower Project, Alk

Subject

Confirmation of Mean Annual Energy and Benchmark Net Deliverable Energy

Refince:

1) PPC, AJK letter No. 29-37/2016 dated09-01-2017

[2] Panel of Experts Meeting dated 09-11-206

Receipt of Mean Annual Energy and Net Monthly Benchmark Energy Calculations (submitted by Sponsor) vide PPC, AJK letter [Ref.1] in follow up to Panel of Experts (POE) meeting at Kashmir House Islamabad dated 09-11-2016 is acknowledged. No further comments offered by CPPA-G, please.

Dy. General Manager (Tech)-II CPPA-G Islamabad

Copy to:

1. Chief Technical Officer, GPPA-G, Islamabad.

M/s Riali Hydropower Company (Pvt) Limited, 59-E, Street 7, 1-10/3 Islamabad.

Master File.

Amn - 121017

国 G^{III} Floor ENERCON Building, G-5/2 Islamabad 拿 +92-51-9216962 备 +92-51-9216949 虽 dgmtech-ll@cppa.gov.pk

\Small HPPs\Riali-li SHPP\007 doc-



Leav Gritzki Salub

This is with crister encesto: the proposed in and inglity of PkR 156 follow for the Rials is by drover to meany (Pvt.) Led (RHPCG):

project being set up by itali-nytro power company (Pvt.) Led (RHPCG):

And volv knows we are concerned about the progress of the project which seems to have come to a hatter with a volv knows of egelved several quenes; from State Bank of Pakistan (SBP) where we had but up your coscions approval as the first small hydro power project to see of making under the SBP. Financing Scheme for the Renewable Phergy. Right It is also the histoproject where Dets have come together as financiers for what Was to Betthe first private sector hydell project under Nopro CUpitoni Thille for Small Hydro Power Ceneration Projects upto 25 MW Installed Capabity and we continue to held-questions from them as to the future course of action.

There is a gardonnearly two years since we arranged financing for the project and its seroted if the covernment approvals are yet too materaise. Please for use know your wiewlong the matter as the extension of uptrunt large will also exper by March 2018. The strong results are selected in the extension of uptrunt large will also exper by March 2018. The strong results are selected in the strong results.



State Bank of Pakistan Infrastructure, Housing & SME Finance Department I.I. Chundrigal Road ***

III. Chundrigar Koad Karachi

No. 1H&SMEFD/REPP/2016-3606

February 12, 2016

The Managing Director,
Pak-Brunei Investment Company Limited,
Horizon Vista Building, 6th floor, Comm-10,
Block 4, Scheme No. 5, Clifton

Attention: Ms. Sadaf Alluddin Mr. Karlm Hatim

Karachi Fax No. 35361213

Dear Madam,

Request for Financing for 6.6 MW Riali II Hydro Power Project (HPP) under SBP's Scheme for Financing Power Plants Using Renewable Energy

•Please refer to your bank's letter No. ASIG/39/2015 dated 31-12-2015 regarding the captioned subject.

- 2. In this connection, the following approvals have been granted subject to fulfillment of rules and regulations set by the concerned regulatory authority and other relevant Government Departments, in compliance with the prevalent notifications and Renewable Energy Policy of Government of Pakistan:
 - a) Financing under the Scheme is being allowed for civil works, amounting to Rs. 1,012.383 million related to 6.6 MW Riall II HPP.
 - b) Availability Period of 03 years is granted. The total tenor shall, however, not exceed maximum of 10 years.
- 3. Accordingly, you may process the financing request, of M/s. Riall Hydro Power Company Ltd for their 6.6 MW Riall II Hydro Power Project, for civil works in addition to plant & machinery under the captioned Scheme. Furthermore, you are advised to approach us for refinance limit allocation after getting firm commitments from other banks/DFIs in the syndicate indicating share of each bank/DFI.
- 4. You must ensure fulfillment of requisite pre disbursement formalities by the borrower through due diligence as per your own internal arrangements to avoid malpractices and mis-utilization of funds under the Scheme. You will also be required to submit compliance certificate, verifying smooth progress based on the verification reports prepared by the technical consultants to the Project.

Sincerely,

(Dr Muhammad Saleem)
Additional Director

Phone: 92-21-99221358 Fax: 92-21-99221139

Committee the second states of the state of

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MATIONAL TRANSMISSION & DESPATCH COLLED.

General Manager Planning Power, NTDCL

No GMPP/CEMP/TRP-300/HPP/Riali-II/ 67647

Dated: 20-09-2013

General Manager (CPPA) (07. WAPDA House (Labore 1872) (1874-042-9920)

Sub: Lelectrical Gild Studies for 6.3 MW Riali II Hydro Power Project (HPP)

Ref: Letter No. CREAWIT-III/Bial-II/7288-93 dated 30-07-2013 from the office of CM (CPPA)

This office reviewed the final draft report of the subject 6.3 MW Rialf II HRP received vide above referred letter and resked the consultant. We Power Planning International (PPI) to make necessary changes in the system studies. Wis PPI provided the revised studies on 16-09-2013 after incorporating our comments, this office has now no objection on the recommended interconnection scheme for evacuation of power from the subject they and the subject final report of electrical grid studies is velted. Since the recommended interconnection talls in the jurisdiction of PESCO, therefore, the comments from the office of Chief Executive Officer (PESCO) on the subject grid studies must also be obtained.

(Nisat Almad Bakiri) General Madager Planting Power-NTICCL

CC.

- Managing Director RPIB, Nazimuddin Road, FF/A, Islamabad. (Fax: 051-9100131-32).
- il) Managing Ulrector Hydro Electric Board, H.No.36, Upper Chalter, Muzaffarabad-
- iii) ChiefExecutive(Officer (RESCO), 166-Wapda House, Shamil Road, Reshawar, (Faxe091-9212024)
- (c) Director General, Private: Power Cell, HEB, HINO. B-18, Upper Challar, Mozallarabad.
- v) Syed M.L. Gardezi, Director Development, Mis Riali Etydro: Bower Company (Pvk.) Eld., 59.E., St. No. 7. | Fedial J. 1979, Islandad (Pays 951-3444536)
 - vír M/s PPJ (Consultant), 66 H/2 WAPDA town, Laboie (Fax: 042-35162166)

Master File (MP)

¹ Plogr. Pr. Tower, Egerion Road, Linhore | 11 Pen 12 - 12 392020 | 5 Fax 192 42 3630777



NATIONAL TRANSMISSION & DESPATCH CO. LTD (NTDC)

General Manager Planning Power, NTDC

Dated: 17-02-2017

Shiri Tahud Mirza Mailuging Director (PP1B) Shabosi-c-Millar secretariate ttic floor, (Impul Ayenge, Blue Area (slamabad, Missoch-958-100/6)

Subject: Right It Hydropower Project - Power Exacuation:

The presting held enable subject in the committee room of Affaisus of Water & Pewer, Rel 2nd Floor, if lock-se Pak Scenentiag, Islamuhull. The meeting was chaired by Additional Secretary MoV&P, Islamuhull and attended by the fellogane stakeholders.

With reference to above: NTDC is or the vicopoint that the interconnection voltage of 33 kV is more appropriate than 132 kV forcevaluation of power from sinfall hydropolyee projects and litting Riali 1, 11 & 11) and Batadora, in view of their generation energities diseations as well assessing networkin their vicinity.

(Nagawd Abhad Gurush) General Klanager Philiping Power

推进会

- Mr. Omce Kasul, Additional Secretary, Mowaep, islamubad.
- Secretary ElectricityPDO, AIK-Muzaafiambad: Chief-Executive Officer, CIP&Gaislambbad;
- Chief Executive Officer, PLACO, Pestiawer.
- P.S. to Wildirional Secretary McWrdD Islamabad
- PS-mManaging Director NTDC 414 Wands House Julique
- · Mr. Safeer Abound Director (Educace & Polity) PPID Asternation
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PESHAWAR ELECTRIC SUPPLY COMPANY

PH# 091-9212019 Fax: 091-9212024 OFFICE OF THE CHIEF EXECUTIVE PESCO WAPDA, HOUSE, PESHAWAR

No 435-40, Riali-II

Dated; 03 /03/2014

GM Planning (Power) NTDCL, 4th Floor, PIA tower, Egerton road, Lahore,

Subject:

ÉLCTRIGAL GRID STUDIES FOR 6.03MW RIALLII HYDROPOWER PROJECT.

Ref:

Your letter No. 6764-70 dated 20:09 2013.

PESCO agrees with the recommendations of M/s Rower Planning International (PPI) for evacuation of power at voltage level of 33 kV duly vetted by your office.

(Engr. Mussarat/Gul)
Chief Commercial Officer
PESCO:

Copy to:

- T. GM (TECH) PESCO. The above option was jointly discussed by CE (PMU) and woungoodself in your office and was agreed.
- 2. CE PMU) PESCO for information w.r.t his letter No.560-61 dated 30.1.2014.
- 3. Additional Chief Engineer (CPPA) 229-WAPDA House Labore w.r.t. his letter 9397-9404 dated 13,11:2013.
- * 4. SO to CEO PESCO for information.
- 5. Syed M.H Gardezi, 59E, Street No.07, Sector, I-10/S, Islamabad w.r.t his letter No. RHPCO 228 dated 06.01.2014.

RESHAWAR ELECTRIC SUPPLY COMPANY

PH# 091-9212334 Fax: 091-9212024

No. 1785

OFFICE OF THE * CHIEF EXECUTIVE PESCO WAPDA HOUSE, PESHAWAR

Dated 2 76 120178

Deputy General Manager Tech: GPPA(G) ENERCON Buildings G S/2 Islamabad LD

Subject: CONSENT FOR FOWER EVACUATION FROM 7.08 MW/RIALITHEPPEAND 8.0 MW/KATHALITHEPPEANK.

In continuation of this office letter No. 1758/Hydel/Kathat-II/FIPP dated 14.03.2017 and letter No. 1772/Hydel/Rialf-H/HPP dated 24:03.2017.

Enclosed find herewith approval of PESCO BoD issued vide letter No. Sec PESCO//115 BoD /1606-07 dated 14:04:2017 regarding the subject matter for further necessary action please.

DA as above.





Fax No. + 92.91.9223135 Email: sec.pesco@gmail.com

Office of the Company Secretary PESCO Wapda House, Shami Road, Peshawar

No Sec PESCO/115 BoD/1606-07

100 m

Dated 14.04.2017

Chief Commercial Officer PESCO HQ Peshawar.

Subject: KNASHPESCO BOARD DECISIONS

PESGO Board of Directors in its 115th Board meeting held on 05.04.2017 made the following decision:-

Agenda Item #07

Issuance of NOC/PowersEvacuation certificate in respect of Riall 11 7:08 MW-Hydro Power Projectilocated in AJK

explained to the Board that an application was received from Company Secretary Riali-II HPP vide letter No RHPCO/3017/029 dated 21:03:2017 wherein PESCO was requested to provide Power Evacuation Certificate and consent for purchase of power in respect of their 7.08 MW Hydro Power Project being located at AJKLPESCO technical directorates have not consented on power evacuation at 33 KV vol(age level. However, the sponsors as per undertaking have given consent to constitute B3. KV line along with its operation and maintenance and allied grid equipment. PESCO vide letter No.1772 dated 24.03.2017 issued NOC with the following terms and conditions -

- M/s Riall-II shall be responsible for the construction along with operation and maintenance of the interconnection facility and no cost // expenditure and responsibility in this regard shall be borne by RESCO:
- The Settlement of the obligations of PESCO arising under the back to back agreement which shall be signed between CPPA (G) and PESCO
- III. Approval of PESCO BoD

iv. Generation license / tariff determination by NEPRA

After detailed discussion on the above item, Board of Directors PESCO accorded approval for issuance of Nec/consent regarding evacuation of power from 7.08 MW Riali-II HPP located at AJK

Issuance of NOC/Power Evacuation certificate in respect of Kathai-II. 8.0 MW/HVdro/RowenProjectilocated in AUK

CEO PESCO also informed the Board that an application was also received from Company Secretary Kathal-II, HPP vide letter No. KATHAI-II/RESCO)/2017 dated Feb. 8, 2017 Wherein PESCO was requested to provide Power Evacuation Certificate and



consent for purchase of Power in respect of their 8.0 MW Hydro Power Project being located; at Auk PESCO fechnical directorates flave not consented on power evacuation at 33 KV voltage level. However, the sponsors have undertaken to construct 33 KV line along with its operation and maintenance and allied grid equipment PESCO vide letter No 1758 dated 14.03.2017 Issued NOC on following terms and conditions: terms and conditions:

- Mis Kathajili shalt be responsible for the construction along with operation and maintenance of the interconnection facility and no cost / expenditure and responsibility in this regard shall be borne by RESCO as per undertaking given by the concerned Company Secretary.
- Settlement of the obligations of PESCO arising under the back to back agreement which shall be signed between GPPA (G) and PESCO.

CEO requested Bod Top approval of issuance of NOC (consent regarding evacuation of power from a 0 MW/Kainaf It HPP located at AJR.

Please take further necessary action in light of Board decision and implementation position may be forwarded to this office within a week time positively.

Manager Continersial Pesco Peshawar

Endos No. 50 13 - 44

Eindost No. 50 13 - 17
Copy of the above is forwarded to The Addi Manager Commercial/The Deputy Manager

1世纪2004年

Commercial (IMP) PESCO/H/Q:Peshawar for taking further necessary action.

The SO to GEO Pesco Peshawar with reference to above for information.

No.Ent.2(05)-PPIB/2016-Misc Government of Pakistan Ministry of Water and Power

Islamabad, July 31, 2017.

The MD, PPIB, Islamabad. The CEO, PESCO, Peshawar.

The CEO, CPPA-G, Islamabad. The Director (Dev),

Riali Hydro Power Company (Pvt) Ltd,
Islamabad.

Subject:

MINUTES OF MEETING REGARDING EVACUATION OF ELECTRICITY EROM. VIB MW RIALI-II HYDROPOWEN PROJECT THROUGH 33 KV NETWORK IN AJK AND BACK TO BACK AGREEMENT BETWEEN PESCO SCEPPA-GEID.

if an directed to refer to the meeting held on 26th July 2017 on the subject cited above with Additional Secretary (P), MoWP in chair and to enclose herewith minutes of the meeting for information and further action.

Encl: As Above

(M. Anrangzaib Durrani') Section Officer (Ent) Phr. 051-9103995

Cc:

SPS to the Additional Secretary (P), MoWP. PS to the Joint Secretary (E&D), MoWP.

MINUTES OF MEETING HELD ON 26TH JULY REGARDING EVACUATION OF ELECTRICITY FROM J. 18 MW. RIALLEII HYDROPOWER:PROJECT THROUGH 33 KV NETWORK IN AUKAND BACK TO BACK AGREEMENT BETWEEN PESCO & CPPA-GILID

A incering was held on 26th July 2017 at 1030 hours in the Ministry of Waler and P with Additional Secretary (P) in schair. Representatives from RESCOLEPPIB (GPA GLicit) and the with Additional Secretary. (P) in chair Representatives from a comparative sponsors of Right Hydropower project were present to additionate gupon the simple timents with Evacuations of Power from 7.08 MW Right-II. (RHPCO) (the Project) Busing the Participants is laboration of Power from 7.08 MW Right-II. (RHPCO) Annex-I.

MINUTES

Evacuation of Power

الدور إلى المنافق

The Sponsor of the Project informed that they that carried outdentill inferconnection study for evacuation of power from the Project at a Voltage level of \$23 kV and the same that been approved by PESCO and NTDC Planning Power department PESCO (vide letter No. PL772; dated 24.03.20) 7 to GPPA-C issued their Consent to Power Evacuation from the Project in owever, CPPA-G Ltd. vide their letter No. 22943 49 dated 05.06 2017 informed PESCO that their conditions of operation at & maintenance of interconnection tracility by the Sponsors is not inclinating with NEPRA (Sale of Electric Power by Renewable Energy Companies) Guidelines, 2013 and requested PESCO to issue revised Consent un accordance swith the NEPRA Guidelines. However, despite the issuance refriencing to CPPA:Gathey could not receive the revised consents from PESGO resulting in undue delay in filing of

CEO, PESCO responded that due to financial constraint of PESCO and the work load of PESCO concerned directorate, they are unable to provide interconnection facility for the Project. The power generation will be in AI&K where the maintenance of such transmission line will be a key issue to PESCO due to scarcity of resourcestand lack of jurisdiction; hence, it will be difficult as well as costly for PESCO to operate and maintain any such network in AJ&K. Therefore, PESCO cannot enter into any agreement pertaining to evacuation of power with RHPCO/CPPA-G Ltd. Moreover, CEO stated that PESCO has a license of NEPRA for the province of Khyber Pakhtunkhwa, thus responsible for maintenance of Network up to 132 kV within its own jurisdiction.

Director (Hydel) : PPIB agreed with CEO, PESCO above statement on unstitution issues linformed the Chair that numerous small hydropower projects located in AlæKias well as Gibiare in telopmental phase landshes foresees similar issues in further regarding thower evacuation from these projects; therefore santumplementable / realistic solution may be formulated and adopted

- 5. DGM (Tech), CPPA-G Ltd_agreed with PPIB for a robusts of union to power, evacuation & operation of interconnection facilities from projects like Rial = 11-HPP?
- 6. The Chair suggested that keeping in View the PESCO reluciance to provide the purchaser's interconnection facilities for the reasons mentioned above. CPP A Gilld may file Project. Power Acquisition Request ("PAR") to Regulator (NEPRA) with a request that the Project Sponsor maybe allowed to construct rown and operate the interconnection racilities up to the 182/11 kV Muzaffarabad (Old) Grid Station.
- 7. The Sponsors informed the Chair that they are willing to accept the Chair tegarding the construction operation and maintenance of the project unterconnection acceptance.

that such arrangement is agreed between CPPA-G Ltd. and the Sponsors and further approved by the Regulator. Furthermore, since PESCO is the owner of the existing / redundant 33 kV transmission line located near project site; therefore, it is requested that PESCO may issue consent to Sponsors for the utilization of the right of way (ROW) of existing / redundant 33 kV transmission line from the Project to Muzaffarabad (Old) Grid Station.

8: CEO PESCO agreed that PESCO will issue the required consent for the utilization of the ROW to the Sponsors

(B) Backito Back Agreement

- 9. The CPPA'G further informed that they have forwarded a copy of Back to Back Agreement which needs to be executed between CPPA-G and PESCO; henceforth regarding evacuation of Rower from small hydropower projects and signing of the respective EPAs. However, PESCO has not provided their feedback on the draft Back to Back Agreement therefore, the EPA Agreement(s) for small hydros could not be signed due to the non-availability of Back to Back agreement. The CPPA-G further informed that various other DISCOS such as MEPCO & EESCO have already agreed and signed the Back to Back Agreement with CPPA-G full.
- 10, The CEO PESCO agreed to finalize the Back to Back Agreement With CPPA-G Ltd

C. Gazette Notification of NEPRA's Extension tof Date of Acceptance sof sUnitoning

- LL. The Sponsors of Riali-II informed the Chair that NEPRA vide their decision dated April 10, 2017, extended the date of Acceptance of Upfront Tariff for Small Hydros and intimated Ministry for the purpose of portification in the official gazette; however, the said notification is still pending. The projects cannot opt for upfront fariff unless the notification is sissued by the Federal Government.
- 12. In this regard JS (PF) informed the Chair that Ministry has sought a clarification relating to such extension of upfront tariff from the Regulator and the gazette notification will be issued once the clarification is received to this Ministry.
- 13. Having listened to the arguments from all the stakeholders, the Chair made the following decisions:

DECISIONS

- Since the gridstation does not he within the jurisdiction of PESCO accordingly they can not grake the sinventory and maintain the line. Therefore strey would like the electronistic be sold and purchased as the doors tenor. Muzattarabad (Old) Grid Station a
- 2) Rialitagrees to the fact that this is an issue for PESCO and is willing to take up the construction O&M and to shift the bus bar to the farm gates However, they also demand that this situation may be referred to the regulator through CPPA Gawho will be requested to build in the construction and O&M cost on Rialits and the law in vogue.
- 3) PESGOsalsoidemands a change in the GPRA-G Agreement specification yield projects especially where they are lying in the different territorial jurisdiction.

- 4) CPPA-G may file Project's Power Acquisition Request ("PAR") of the project to NEPRA within the shortest period of time
- 5) PESCO is willing to immediately provide to the Sponsors all necessary consents and approvals for the utilization of the PESCO's Right of Way of existing / redundant 33kV transmission line from the Project up to Muzaffarabad (Old) Grid Station PESCO wills also facilitate and timely provide all the technical information that may be required by the Sponsors for the approval and implementation of the said interconnection facilities. Eurthermore of the Sponsors will construct yown soperate and amaintain the said interconnection facilities during the concession period that shall be agreed between the Sponsors & GBPA. Gillid and further approved by NEPR said are bound to transfer the said interconnection facility (from project busing to grid station) to PESCO free of cost after the end of such concession period.

6) Ministry will issue the gazette notification of the Regulac of, Date of Acceptance of Upfronts Fatiff for Smalls Hydro larification from NEPRA

List of Participants

Section 1	S. No.	Name/Designation	· Was State			
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		Additional Secretary (I)	Self Self-No.			
7	2.	MrkM. Zargham Esha Noint Secretary (P&F)	q Khan			
	3.	Mr. Mr Aurangzaib Du	ırrani	10. 10. 10. 10. 10. 10. 10. 10. 10. 10.		
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STATE OF		PESCO	219			dra sint
1	4	Engr. Shabir Ahmad				
		Chief Executive Office)			
	5.1	Private Power & Infra		Ministry of Wat	er & Power	
		Engr. Munawar Iqbal Director (Hydel)素	Balling Control of the Control of th			
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8		Senior Manager (Lega	D'			
	7.	Mahesh Chaudhry Sr Manager (Hydel)				-
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	8.	Ejaz-Mohsin				:.
		Deputy General Manag	ger (Technical)			7
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MINUTES OF MEETING SHEED ON 15:06:2015 AT CONFERENCE ROOM OFFICE ENGINEERIN REGOUREMENTIC PRATETH FLOOR PLANTOWER EGERTION ROAD, EAHORESTO DISCUSSEDBATAND ERG STAGE PARIES PETERGN OF RIMERIES MANY HYDRO FOWER PROJECTISHPETAT&KISPONSORED BY MISRIAECH HYDROPOWER CORPLED / RHPCOL

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AZAD GOVT. OF STATE OF JAMMU & KASHMIR PRIVATE POWER CELL

AJK PDO Complex, Upper Chatter Housing Colony, Muzaffarabad.

Tel: (05822) 921966 (05822) 921685 Fax: (05822) 921305

mall: ajk_ppc@hotmail.com

Ref: PPC/143/ - 36 /2016

Dated:

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F/A-3

Syed M. H. Gardezi,
Director Development,
Riali Hydro Power Company (Pvt.) Ltd.
59E, Street # 7, I-10/3,
Islamabad.

SUBJECT

APPROVAL OF UPGRADATION OF INSTALLED CAPACITY FROM 6.6 MW RIALI-II HPP TO 7.08 MW RIALI-II HYDROPOWER PROJECT

Reference

- i) Approval of feasibility study # PPC/938-43/2014 dated 17.07.2014.
- ii) Letter No.RHPCO/2016/056 dated 05.05.2016 vide which Power and Energy Modelling Report for the project was provided by the Sponsors.
- iii) Meeting of Panel of Experts (POEs) dated 10.10.2016 during which the updated feasibility study was discussed/ approved.

AJK Private Power Cell (AJK PPC) is pleased to communicate approval of the Panel of Experts (POEs) for upgradation of installed capacity of Riali-II Hydropower Project from 6.6 MW to 7.08 MW based on design discharge of 2.8 m³/s and a plant factor of 61% subject to the following:

- (i) The Panel of Experts (POEs) does not take any responsibility for reliability of data, its contents and conclusions of feasibility study.
- (ii) Queries / explanation from Power Purchaser or NEPRA regarding the data, information and cost estimate would have to be provided by the Sponsors.
- (iii) AJK PPC shall not accept any responsibility whatsoever due to variations in stream hydrology.
- 2. The Sponsors shall ensure timely achievement of financial close under LOS already issued vide letter # PPC/374-81/2013 dated 09.04.2013.

Director General

Copy to:

1. Secretary Electricity/PDO, GoAJK, Muzaffarabad (Chairman POEs)

2. Chairman NEPRA, OPF Building, G-5/1, Islamabad.

3. Managing Director, PPIB, GOP, Islamabad.

Chief Operating Officer, CPPA-G, Islamabad.

Chief Executive Officer, Peshawar Electric Supply Company (PESCO).

