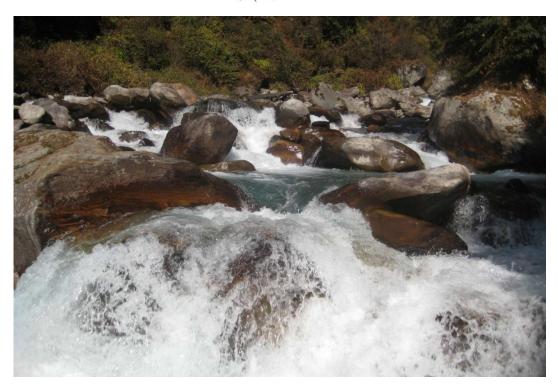
SINDHUJWALA HYDROPOWER LTD

UPPER NYASEMKHOLA HYDROELECTRIC PROJECT (43 MW) SINDHUPALCHOK, NEPAL





PROJECT UPDATE REPORT

Head Office:

Mahadevsthan marga, Tinkune Kathmandu, Nepal

Email: sindhujwalahp@gmail.com Website: www.sindhuhydro.com Project Site Office:
Jugal Rural Municipality-3
Gumba,
Sindhupalchok, Nepal

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1. Description of the Company

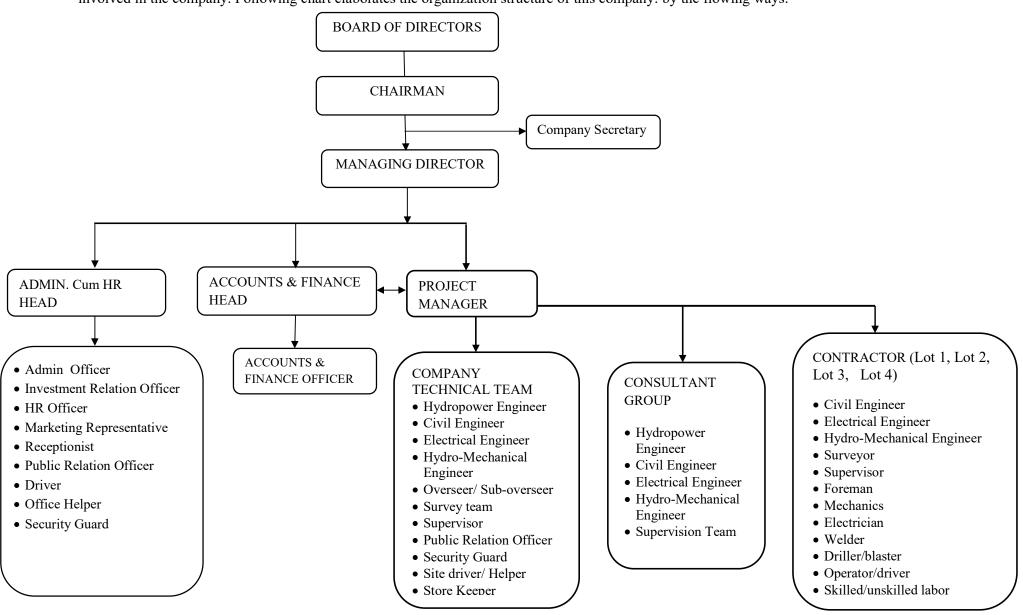
Sindhu Jwala Hydropower Limited (SJHL) is established on 2065 BS as a Private Limited company and converted into Public limited company on 16th Bhadra 2073, with the main objective to develop, build and operate hydroelectric project in Nepal. The company from its very beginning is focusing on the development of the Upper Nyasem Khola-A Hydroelectric Project (21MW) and Upper Nyasem Khola Hydroelectric Project (43MW).

Company	Sindhu Jwala Hydropower Limited
Туре	Public Limited Company
Address	Tinkune, Kathmandu
Establishment	2065/04/21 B.S.
Permanent Address Number (PAN)	303009584 Kathmandu
Registration no. at Office of Company	155088/065/66
Registrar	
Department of Industry Registration No	3458/ 158/068/69 (2068-11-11)
Project under development	Upper Nyasem Khola-A Hydroelectric
	Project (21MW)
	Upper Nyasem Khola Hydroelectric
	Project (43MW)

Table 1 Company details

2. Organizational Structure

In any organization, the organizational structure plays a vital role in achieving the success. This structure defines the role of each persons involved in the company. Following chart elaborates the organization structure of this company: by the flowing ways:



3. PREAMBLE:

Introduction:

The Upper Nyasem Khola Hydroelectric Project is a run of the river (ROR) type hydropower project, located in Jugal Rural Municipality, Sindhupalchowk district of Province No. 3, Nepal. The Nyasem khola is a major tributary of the Balephi River which is one of the tributary of Sun-koshi River. Nyasem Khola has 40% dependable flow which is estimated at 5.96 m³/s and is adopted as the design discharge of the project. The design flow 5.596 m³/s has been conveyed from Nyasem Khola via headrace tunnel to a forebay where the tapping of 0.34 m³/s from Lampokhari khola is added. The gross discharge of 5.96 m³/s is conveyed to powerhouse for 43.00 MW generations with a gross head of 860.00 m.

Geographically, the project site lies between latitudes of 28⁰01'10" and 27⁰59'30" North and between longitudes 85⁰48'50" and 85⁰50'30" (*Upgraded Coordinate, East latitudes of 28⁰01'10*" and 27⁰59'26" North and between longitudes 85⁰49'10" and 85⁰50'45" East). The proposed head-works and powerhouse site are located at the Left bank of Nyasem Khola. It is located about 40 km North of Balephi, confluence of Bhotekosi and Balephi River and Balephi is about 72 km East from Kathmandu. The altitude of the intake and powerhouse are 2924.0 masl and 2050m m masl respectively on the left bank of Nyasem Khola and is located near Ambakharka village. This proposed powerhouse location is about 1.3km upstream of the Nyasem-Balephi confluence. Physiographically, the project area belongs to the Higher Himalayan in between 2850 m to 1950 m above mean sea level. The nearest roadhead to this project is a gravel road at the Bolde Bazaar which is located at a distance of about 40 km from Balephi Bazaar located along Araniko Highway, which itself is located about 72 km from Kathmandu.



Figure 1. Location Map of the project

Sindhu Jwala Hydropower Limited, the developer of Upper Nyasem Khola Hydroelectric Project in close coordination with the local people of the project area is constructing a road from Baramchi to Ambakharka village including both access road for project site and transmission line site. Ambakharka lies approximately somewhere at the midpoint of the proposed penstock alignment of this project at an approximate location of EL 2400.00 masl. The main project access road alignment is envisaged to start from Ambakharka to the project headworks site at Nyasem Khola. It will also pass through the secondary headworks site located at a place called Slinge Danma on the banks of Lampokhari Khola and outlet of Headrace tunnel in Lampokhari Khola. Another section of the project access road will be aligned towards the proposed powerhouse site of this project.

The Nyasem Khola catchment is confined by Phurbochyachu Himalayan Range to the north, Bhotekoshi Nadi to the east, upstream part of Balephi Khola from its confluence with Nyasem Khola to the west and Sunkoshi Nadi to the south. The catchment of Nyasem Khola has wide variation in elevations ranging from Phurbochyachu Himal at an elevation of 6125 m to about 1600 m at its junction with Balephi Khola. As per Physiographical Region, 33.71% and 66.29% of the catchment of Nyasem Khola lay in High Mountain and High Himalayan Region respectively.

The catchment area at intake is 62 km². The hydrological analysis of the tapping at Lampokhari also has been conducted. The 40 percentile exceedance flow at Nyasem and Lampokhari are 5.53 m³/s and 0.43m³/s respectively. 0.15 m³/s water flow will be taken from small Kholsi which is very near to proposed Lampokhari headworks to generate full install capacity of 43 MW. The total discharge of 6.10 m³/s shall be used to generate full capacity of the project. The 100 year return period flood is adopted to be 93 m³/s for the main diversion weir and 7m³/s for Lampokhari. The average flow of Nyasem is 7.0 m³/s and 0.173 m³/s of the flow will be released downstream from environmental considerations.

The Upper Nyasem Khola Hydroelectric Project is a run-of-river hydroelectric project located on the Nyasem Khola. Upper Nyasem Khola Hydroelectric Project is located in Jugal Rural Municipality of Sindhupalchowk District, Province No. 3, Nepal. The site is located about 60 km northeast of Kathmandu and about 32 km north of Balephi Bazaar located along Araniko Highway.

The headworks site for the project has been proposed at a location approximately 6 km upstream from the confluence of Nyasem Khola and Balephi Khola and this site is located at an elevation of about EL 2924 masl. The water from Nyasem Khola will be diverted to the headrace tunnel proposed on the hill slope and the discharge will be conveyed to the secondary headworks located at Lampokhari Khola, which is a tributary of Nyasem Khola. A diversion weir has been proposed across Lampokhari Khola at an elevation of El 2926.0 masl to collect the discharge from Lampokhari Khola throughout the year. The diverted discharge from Lampokhari Khola will then be added to the flow from the headrace tunnel.

The added discharge from Lampokhari Khola along with the flow from Nyasem Khola after passing through the Forebay basin will then be conveyed through a headrace pipe proposed along the left bank hill slope leading to a surge tank located at a place called Gyafrigang. A surface penstock pipe has been proposed to transfer the discharge from the surge pipe to the powerhouse on the left bank of Nyasem Khola. The powerhouse has been proposed on the left bank of Nyasem Khola and this area is located about 1.3 km upstream from the confluence of Nyasem Khola and Balephi Khola.

Power evacuation will be done through a 13 km long 132 kV transmission line connected to the national grid at the proposed substation at Pantang (*Proposed*) or 35km long 132 kV transmission line connected to the national grid at Barhabise substation (*According to grid connection*). The total annual energy generation from the plant is 251.48 GWh, out of which 37.12 GWh will be produced during the four months of dry season from Paush to Chaitra. This energy generation excludes schedule and unscheduled outages, station consumption and transmission losses. The main attractive feature of this project is its high gross head of 880.00m.

KEY DATE AND MILESTONE

SN	Activities	Date
1	Award of Survey License by DoED	2067/02/19
2	Application for Power Purchase Agreement to NEA	2068/04/17
3	Connection Agreement with NEA	2073/07/24
4	EIA Approval Date	2071/11/14
5	Award of Generation License by DoED	2073/08/07
6	Conclusion of PPA with Nepal Electricity Authority	2073/07/24
7	Application of survey license for transmission line to DoED	2073/8/21
8	Award of Survey license for Transmission Line by DoED	2073/10/13
9	Financial Closing Date	2074/12/11
10	COD date	
11	Contract agreement for Detail Design Report with Technoquarry Consults P. Ltd	2073/10/19
12	DPR Final Report Submission	2074/08/25
13	Agreement with Home Ministry for the supply of Explosive	2073/12/09
14	Agreement with Technoquarry Consults Pvt. Ltd. for EIA study of transmission line works	2074/05/19
15	Agreement with consultant for DPR of transmission line works	In Progress
16	EIA (Transmission Line) Approval Date	In Progress
17	Site Visit by the Representative of District Forest Office and Survey Office	2074/08/12

SALIENT FEATURES:

(UPPER NYASEM KHOLA HYDROELECTRIC PROJECT -43MW)

OTTER INTASEMI KHOLA ITT DROLLI	REVISED		
Location:	Jugal Rural Municipality		
	Sindhupalchowk District,		
Longitude	85°49'10" to 85°50'45"E (Upgraded)		
Latitude	27°59'26"N to 28°01'10"N (Upgraded)		
Type	ROR Hydro		
Hydrology			
Catchment Area	45.5 km2 (Nyasem Intake)		
	1.75 km2 (1st tapping)		
	2.10 km2 (2nd tapping)		
	3.80 km2 (3rd tapping)		
	52.65 km2 (Total)		
Design Flow (Q40)	4.58 m3/s (Nyasem Khola)		
Design Flow (Q 10)	0.26 m3/s (1st tapping)		
	0.20 m3/s (2nd tapping)		
	0.69 m3/s (3rd tapping)		
	5.96 m3/s (Total)		
1:100 Years Flood (Nyasem)	119.56 m3/s (Nyasem Khola)		
	4.65 m3/s (1st tapping)		
	5.58 m3/s (2nd tapping)		
	10.10 m3/s (3rd tapping)		
	14.61 m3/s (Powerhouse)		
Riparian Release	0.135 m3/s (Nyasem Khola)		
	0.005 m3/s (1st tapping)		
	0.005 m3/s (2nd tapping)		
w	0.018 m3/s (3rd tapping)		
Weir	D 11 4 1 1 4 1		
Type	Boulder type broad crested		
Crest Elevation	2924.00 masl (Nyasem Intake) 14.0 m		
Crest Length Height	3.0 m (From river bed);		
Undersluice	2.0 m *2.5 m		
	2.0 22 2.0 22		
Intake	Side (Ouifies) Intelle		
Type	Side (Orifice) Intake		
No of openings	2 (Nyasem Intake)		
	1 (other 3 tappings)		
Size of openings	2.5m x 1.4m (Nyasem Intake)		
	0.95m x 0.45m (1st tapping)		
	0.70m x 0.35m (2nd tapping)		
	1.50m x 0.50m (3rd tapping)		
Normal Water Level	2923.86 masl		
Gravel Trap			
Particle to be settled	4 mm		
Length	8.5 m		
Width	4 m		

Height	5.06 m
Normal water level	2923.86 masl
Approach Canal	
Section	Rectangular Canal
Size (W x H)	2.5m x 2.5m
Length	50 m
Normal water level	2923.79 masl
Desander	
Type	Surface
Particle to be settled	0.15 mm (95% Removal)
Number of chamber	2 Nos.
Inlet transition length	17.5 m
Length	70.00 m
Width	7.00 m
Height	5.5 m
Normal Water Level	2923.67 masl
Flushing system	Intermittent
Flushing	
Size (W x H)	2.5m x 2.5m canal
Length	100.00 m
Headrace Tunnel	
Section	Inverted D-shaped
Size (W x H)	2.8mx 2.8m
Length	1250 m
Normal water level (at start)	2921.89 masl
Forebay Dimensions	
Length	30 m
Depth	12.50m
Width	15m
Storage Volume	1060 m3
Normal Water Level	2921.87 masl
Headrace Pipe	
Length	1500.00m
Optimum diameter	1.65m
Thickness	10mm
Surge Shaft	
Туре	Exposed surface (Inclined)
Diameter	2.0m with additional horizontal storage chamber
Material	Mild steel
Surface Steel Penstock	
Length	2100 m
Optimum Diameter	1.5 m to 1.40 m
Number of Anchor Blocks	35
Powerhouse	
Powerhouse Type	Surface

Dimensions (L x B x H)	85m x 12m x 20m
Turbine Axis Level	2050.0 masl
Gross Head	874.00 m
Net Head	859.92m
Installed Capacity (Q40)	43.0 MW
mounted capacity (Q.10)	
Tailrace Canal	
Туре	Rectangular Canal
Length	50 m
Width	3.0 m
Height	2.5m
Normal Water Level	2045.00 masl
T. I.	
Turbine	2.11
Number of Units	3 Nos.
Type	Horizontal, Pelton
Rated Output	14.35 MW x 3 units
Rated Revolving Speed	750 rpm
Efficiency	90% at rated discharge
Runaway speed	1350 rpm
Rated net head	859.92m
No. of Nozzles	Two
Rated flow	1.986 m3/s
Generator	_
Number of Generators	3 Nos.
Туре	Horizontal, 3- Φ AC sychnorous
Capacity	16.90 MVA each
Efficiency	96%
Voltage	11 kV
Power factor	0.85 lag
Rated speed	750 rpm
Frequency	50 Hz
Rated current	665 A
Insulation	Class F
module	Ciabo I
Transformer	
Number of Units	3 Nos.
Type	3-ф, Outdoor type
Capacity	16.90 MVA each
Voltage Ratio	11/132 kV
Tap Changing facility	$\pm 2*2.5\%$ with 5 steps
Efficiency	99%
Frequency	50 Hz
Cooling	ONAN
Transmission Line	
Voltage	132 kV
No. of Circuit	Single
Length	13 km
Conductor	WOLF
Connection with grid	Pangtang Substation (Proposed)
	• • • • • • • • • • • • • • • • • • • •

2. INSTITUTIONAL ARRANGEMENT:

Following entities constitute the whole institutional arrangement of Upper Nyasem Khola Hydroelectric Project (43MW) of;

Employer : Sindhu Jwala Hydropower Ltd.

➤ Installed capacity : 43MW

Consultant (Technical Design) : Technoquarry Consults Pvt. Ltd

Consultant (Financial) : C.A Prachanda Karki
 EPC Contractor (Civil Construction) : Under Negotiation

> EPC Electromechanical Equipment : WKV (Under Negotiation)

EPC Contractor (Hydro-Mechanical) : Under Negotiation
 EPC Contractor (Transmission line) : Under Negotiation

3. CONTRACT PACKAGES (LOTS):

➤ Lot 1A: -

Civil Surface Works, consisting of construction of headwork (diversion weir, intake, desander structure, approach canal, gravel trap). Civil works of link penstocks mainly consists of excavation works, construction of concrete anchor blocks and saddle supports

➤ Lot 1B :-

Civil Underground Works for Headrace Tunnel, Powerhouse including Tunnel for pressure shaft after branching.

• Lot 1B-I :-

Headrace Tunnel (HRT) works

• Lot 1B-II :-

Pressure Shaft consisting of Vertical Pressure shaft works

• Lot 1B-III : -

Power House, Tail race

➤ Lot 2 :- Hydro Mechanical Works ➤ Lot 3 :- Electromechanical Works

➤ Lot 4 :- Transmission Line and Substations Works

4. FINANCING

The Employer has arranged the funds from its equity share and loan from a consortium of Nepalese Commercial Banks.

Equity : Developer (Sindhu Jwala Hydropower Ltd)

Loan : Consortium of Nepalese Banks:

➤ Lead Bank : Prabhu Bank

Co-lead Banks:

5. PROJECT PROGRESS UPDATE 10.1 LAND ACQUISITION AND ACCESS ROAD

i. Land acquisition

Based on different types of ownership, there are two types of lands required by the project i.e. governmental and private. Within this frame these lands are either leased till the project period or purchased. Most of the Private land required for the project component has already purchased and few are in the process. The project estimates to acquire of about 18.14 ha of land permanently. Out of 18.14 ha of land, 4.85 ha of land is forest land. Out of 4.85 ha of land, Gaurishankar Conservation Area covers 4.70 ha and Langtang National Park covers 0.15 ha of forestland, 0.15 ha of government barren land and 0.20 ha of river bank land will be required permanently.

Application for the lease of Government Land has already submitted to the respective office along with the permission of tree cuttings since the EIA Approval of the project has already been concluded. Site visit by the representative of District Forest Office and Survey Offices has been completed. As the guideline states that project shall compulsorily implement environmental mitigation measures as mentioned in IEE/EIA report.



Figure 2. District forest officer surveying site for tree cutting in project area.



Figure 3. District forest officer marking tree for cutdown.

ii. Access Road

Upper Nyasem Khola Hydroelectric Project is a run-of-river project and did not have a motorable access road before. The nearest roadhead to this project was a gravel road at the Bolde Bazaar which is located at a distance of about 40 km from Balephi Bazaar located along Araniko Highway, which itself is located about 72 km from Kathmandu.

The developer of Upper Nyasem Khola Hydroelectric Project -43 MW in close coordination with the DOR and the local people of the project area has constructed a road from Bolde to Ambakharka village and the project had completed the road further towards the project including both access road for project site and transmission line site. So far the project has constructed the road up to headwork and powerhouse of Upper Nyasem Khola Hydroelectric Project - 43 MW.

The main project access road alignment is envisaged to start from Ambakharka and end at the project headworks of UNKHEP site at Nyasem Khola. So far, a track road is almost completed in construction from Ambakharka to a place near to the Headwork. From Ambakharka, access road of about 7 km is constructed up to the powerhouse area of UNKHEP towards the river side. From there on about 18 km road is also completed 95% constructed from powerhouse to headworks including access to surge tank/forebay, portals and adits. The project road is also passes through the secondary headworks site located at a place called Slinge Danma on the banks of Lampokhari Khola and outlet of Headrace tunnel in Lampokhari Khola. The access road up to powerhouse of UNKHEP (43MW) is also completed. On the other side the access road for transmission line from Powerhouse to Pangtang Substation has been completed. Therefore, a total length of around 50 km of project road was required for the project which is almost completed.

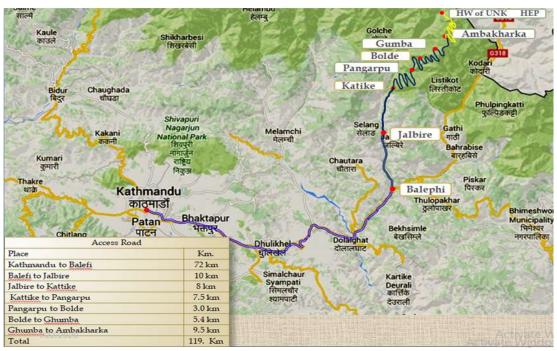


Figure 4. Access road plan of the project

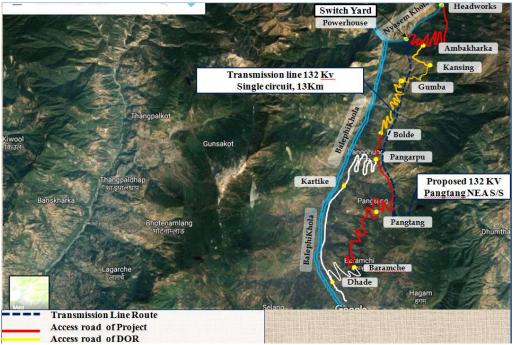


Figure 5. Access road plan of the project

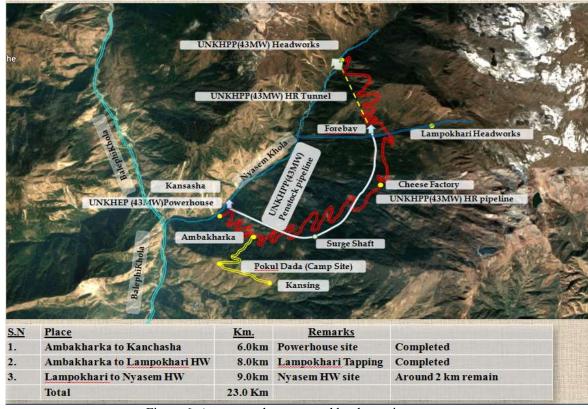


Figure 6. Access road constructed by the project area



Figure 7. Access road construction of the project area by DOR (2018)



Figure 8. Access road construction of the project area by DOR (2018)



Figure 9. Access road of the project area



Figure 10. Upgrading access road of the project area (2023)



Figure 11. Access road upgrading of the project area



Figure 12. Access road upgrading of the project area





Figure 13. Access road construction by the project at Headworks of the project area (2024 Dec)

10.2 Camp and other facilities

Project camp establishment at Ambakharka area has been completed. The construction of Employers' camp near Powerhouse area at Kanshasha and at Lampokhari HW area also completed except some finishing works.





Figure 14. Camp house at Ambakharka



Figure 15 Camp house at Lampokhari HW



Figure 16. Camp house at -PH area at kanchasha (2025 June)



Figure 17. Temporary Camp house at Pokul Dada near Ambakharka -PH area



Figure 18. Army camp construction at Pokul Danda.

10.3 Lot-I: Civil Works

10.3.1. Contractor Selection:

The technical team of company has reviewed the technical proposal from various companies. Once the bidder's proposal to be the most responsive and responsible based on the evaluation criteria outline is complete and awarded the eligible bidder after the tendering process, the contractor is scheduled to start the civil work soon.

10.3.2. **Preliminary works:**

No civil works have been started at site however the contractor team has been conducting the site visit frequently finalizing the construction material query site, dumping site, spoil disposal site, crusher site, labor camp site, construction power management.

10.3.3. Construction material Survey:

- a. Technical team of the Company has visited the possible sources of construction materials especially for course and fine aggregate its quantity and quality. Both course (boulder from course aggregate) and fine aggregate are available at project area, whereas fine aggregate are available at river banks. However lab test of these materials has not done till yet.
- b. Agreement with Home Ministry for the supply of Explosive has been completed with no objection certificate and license from Indian Embassy on 2017. The time extension proposal for the purchase of Explosive license is in the process since the time period of the license had ended.

The preliminary Detailed Schedule is prepared for the civil works construction which is attached in Annex.



Figure 19 Crusher site at cheese factory area

balance quantity of the items as detailed below:

Aluminium Short Delay Electric

Detonating Cord (10/20 gm/m) 10,000 Mtr.

Detonator - 3/5 Lead Wire

Name of the items

Powergel 801 Emulsion

Explosive (25/32 mm)

24.07.2017 shall remain unchanged.

Approved Quantity

200 Ton

 In view of the request of Ministry of Foreign Affairs, Government of Nepal vide Note verbale dated 04.02.2021, the validity of the above referred NOC/Licence dated 24.07.2017 is hereby extended till 18.08.2021 for enabling them to import the balance quantity. All other details of the NOC/Licence dated

Imported

Quantity

email: economic.kathmandu@mea.gov.in

Remaining

Quantity

200 Ton

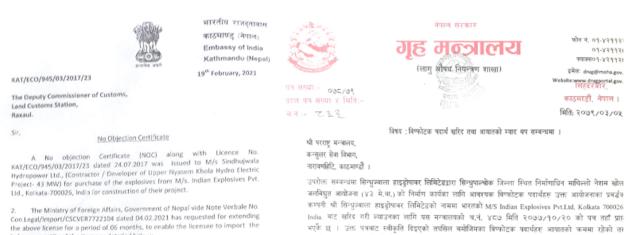
3,00,000 Pcs

10,000 Mtr.

raphjeet Singh Gulati) st Secretary (Economic)



Figure 20 Fuel supply for PH excavation this month



कस्मविषुत आयोजना (४३ म. सा.) को निमाण कायको लागि आवश्यक विष्फाटक पदार्थहरू उक्त आयाजनाका प्रबद्धव कम्पनी श्री तिन्पुञ्चला हाइड्रोणयर लिमिटेडको नाममा भारतको M/S Indian Explosives Pvt.Ltd, Kolkata 700026 India बाट खरिद गरी न्याउनका लागि यस मन्त्रालयको च.नं, ४८७ मिति २०७५/१०/२० को पत्र तहाँ प्रार्भएके छ । उक्त पत्रबाद स्वीकृति विइएको तपसिल बमोजिमका विष्फोटक पदार्थहरू आयातको कममा रहेको तर भारतीय द्रावासखाट आरी गरेको No Objection Certificate(NOC) No KAT/ECO/945/03/2017/23 को म्याद 18 Aug 2021 मा समाप्त भई कोभिड-१९ महामारी तथा अन्य विविध कारणले समयमा आयात गर्न नस्विक्एकोले उक्त NOC को म्याद पुन: ६ महिना थप गर्नका लागि ऊर्जा, जलस्रोत तथा सिचाइ मन्त्रालयको च.नं. १२४६ मिति २०७९/०२/०९ को पत्रबाट अनुरोध भई आएकोले आयात हुन बाँकी तपसिल बमोजिमका विष्फोटक पदार्थहरू पुर्व पत्रमा उन्लेखित शार्तहरूको अनिवार्य पालना हुने गरी विष्फोटक पदार्थको आयात ओसारपसार संचय र प्रयोगको इजाजत प्रदान गर्ने सम्बन्धी कार्यविधि २०७३ को वुँदा नं, ६ अनुसार उक्त NOC को म्याद पुन: ६ महिना थप गरिएको व्यक्तिए मिति २०७९/०२/१३ को निर्णवानुसार अनुरोध छ ।

सि.नं.	विस्फोटक पदार्थको नाम	स्वीकृत परिमाण	आयात भै प्रयोग भएको परिमान	आयात हुन बाँकी परिमाण	स्वरिद गरिने स्थान
1	Powergel 801 Emulsion Explosive (25/32 mm)	200 Ton		200 Ton.	M/S Indian Explosives Pvt.Ltd, Kolkatz 700026, India.
2	Aluminum Short Delay Electric Detonator 3/5 Lead Wire	3,00,000 Pcs		3,00,000 Pcs	
3	Detonating Cord (10/20 gm/m)	10,000 mtr.	-	10,000 mtr.	
				10,000 1111.	

Figure 21 Explosive purchase permission documents by the Home Ministry

थी जिल्ला प्रशासन कार्यालय, सिन्पुपाल्योक ।

10.4 Lot-II: Hydro – Mechanical Equipment Technical Proposal

10.4.1. Contractor Selection:

The technical team of company has reviewed the technical proposal from various companies. Once the bidder's proposal to be the most responsive and responsible based on the evaluation criteria outline is complete and awarded the eligible bidder after the tendering process, the contractor is scheduled to start the HM work concurrently with responds to civil work.

10.3.4. **Preliminary works:**

- i. No HM works have been started at site however the contractor team has been conducting the site visit frequently finalizing the workshop area, lab testing area, labor camp site, and construction power management.
- ii. The company has received the offer of a 36 months deferred payment facility from the date of LC issue to the date of payment from the HM headrace and penstock company. However awarding of the eligible bidder after tendering process is yet to be done. (Attached in Appendix: 3).

10.5 Lot-III: Electro – Mechanical Equipment Technical Proposal:

10.5.2 Contractor Selection:

The technical team of company has reviewed the technical proposal from various EM suppliers while EPC contractor selection process was underway. After much of negotiation and technical capabilities standards assessment the company has concluded the MOU with WKV (Attached in Appendix: 4). the two parties have been negotiating since few years in technical and financial matters regarding the EM packages procurement. However once the bidder's proposal to be the most responsive and responsible based on the evaluation criteria is met and awarded the eligible bidder, the contractor is scheduled to start the EM work concurrently with responds to civil work.

10.6 Lot-IV: Transmission line

- a. Transmission line survey license was acquired in 2073BS and the company is in final stage of acquiring the generation license since the EIA process is ongoing.
- b. A transmission line survey report has been submitted by the consultant and its feasibility study is in final stage. Along with this, a detail topographical survey has been completed by the consultant.
- c. Major access road for transmission line from the project site to the substation has been completed.
- d. Land Acquisition in Transmission line is completed 100%



Figure 22 Substation Area

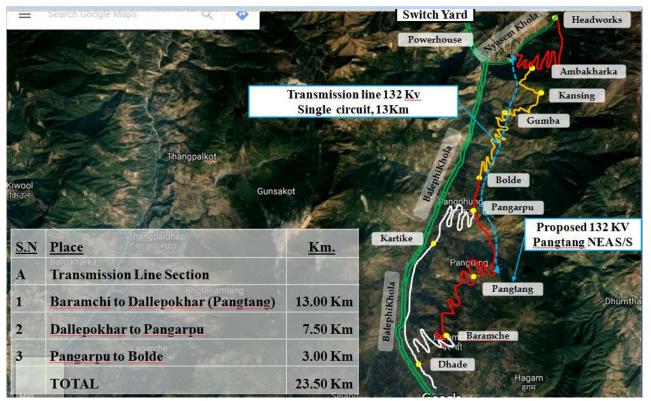


Figure 23. Transmission line route plan



Figure 24. Access road towards substation from Baramche side

ANNEX-I BANK GUARANTEE



A09926

PRABHU BANK LIMITED

Rs248400000

Regd. Office: Babarmahal, Kathmandu, Nepal
Tel: +977-01-5719000, Toll Free No.: 16600107777
Email: info@prabhubank.com
Website: www.prabhubank.com
SWIFT: PRVUNPKA

Date: 11.07.2025

Beneficiary:

Power Trade Department Nepal Electricity Authority Durbarmarg, Kathmandu, Nepal

Subject: Validity Extension of Performance Guarantee

Our Ref No.: P00101P065878
Date of Issue: 16.10.2020
Amount: NPR.24,840,000.00

Principal: M/s. Sindhu Jwala Hydropower Ltd

Tinkune, Kathmandu, Nepal Power Trade Department

Nepal Electricity Authority Durbarmarg, Kathmandu, Nepal

Previous Expiry Date: 30.05.2024 Revised Expiry Date: 13.04.2027

Purpose: Power Purchase Agreement (PPA)

No of Amendment: 4 (Four)

At the request of applicant viz. M/s. Sindhu Jwala Hydropower Ltd, Tinkune, Kathmandu, Nepal we hereby extend the validity of the aforesaid guarantee amounting to NPR.24,840,000.00 (Nepalese Rupees Twenty Four Million Eight Hundred Forty Thousand Only) up to 13.04.2027.

Claims, if any, under this guarantee must be submitted to us in writing not later than the said expiry date of guarantee, i.e. 13.04.2027 within banking hours.

Other terms and conditions of original guarantee will remain unchanged.

In case of any inquiry, please feel free to write at cto-bg@prabhubank.com.

фркавьи вапк

Please state our reference number in all the communication related to this guarantee.

Thank you

Stuti Chand

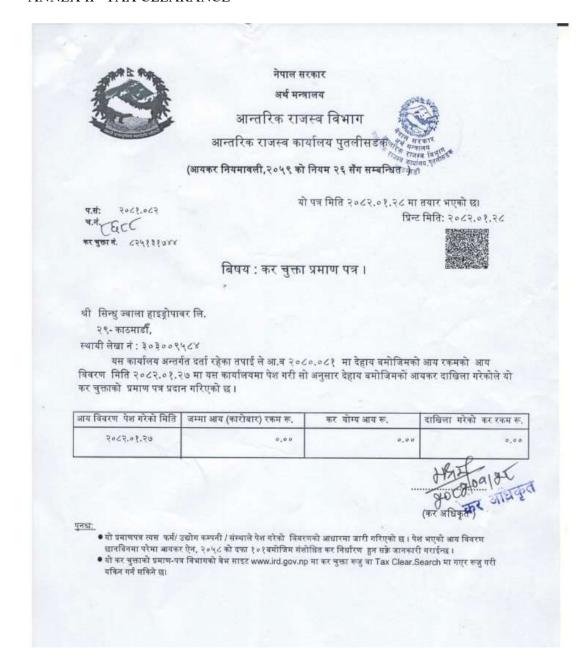
Officer - Central Trade Operations

Kamala Dhungel

Officer - Central Trade Operations

Caural Progrus

ANNEX II -TAX CLEARANCE



ANNEX-III CONSTRUCTION SCHEDULE

