


ಕರ್ನಾಟಕ ವಿಧಾನ ಪರಿಷತ್ತು

ಚುಕ್ಕೆ ಗುರುತಿಲ್ಲದ ಪ್ರಶ್ನೆ ಸಂಖ್ಯೆ : 410
 ಸದಸ್ಯರ ಹೆಸರು : ಶ್ರೀ ಮೋಹನ್ ಕುಮಾರ್ ಕೊಂಡಜ್ಜಿ
 (ನಾಮನಿರ್ದೇಶನ ಹೊಂದಿದವರು)
 ಉತ್ತರಿಸುವ ದಿನಾಂಕ : 15.09.2022
 ಉತ್ತರಿಸುವ ಸಚಿವರು : ಮಾನ್ಯ ಜಲಸಂಪನ್ಮೂಲ ಸಚಿವರು

ಕ್ರ. ಸಂ.	ಪ್ರಶ್ನೆ	ಉತ್ತರ
(ಅ)	ಉಡುಪಿ ಜಿಲ್ಲೆಯ ವಾರಾಹಿ ನೀರಾವರಿ ಯೋಜನೆಯಲ್ಲಿ ಕಳೆದ 2 ವರ್ಷಗಳಿಂದ ಇಲ್ಲಿಯವರೆಗೆ ಮಂಜೂರಾದ ಏತ ನೀರಾವರಿಗಳೆಷ್ಟು; ಹಾಗೂ ಅವುಗಳಿಗೆ ತಗಲುವ ಅಂದಾಜು ವೆಚ್ಚವೆಷ್ಟು; ಮತ್ತು ಯಾವ ಯಾವ ಗ್ರಾಮಗಳಿಗೆ ನೀರಾವರಿ ಸೌಲಭ್ಯ ಕಲ್ಪಿಸಲಾಗುವುದು; (ಡಿ.ಪಿ.ಆರ್ ವರದಿ ಸಲ್ಲಿಸುವುದು)	<p>ವಾರಾಹಿ ನೀರಾವರಿ ಯೋಜನೆ ಅಡಿ ಕಳೆದ 2 ವರ್ಷದಲ್ಲಿ ಕುಂದಾಪುರ ತಾಲ್ಲೂಕಿನ 76-ಹಾಲಾಡಿ ಗ್ರಾಮದ ದಾಸನಕಟ್ಟಿ ಹೊಳೆಗೆ ಕಿಂಡಿ ಅಣೆಕಟ್ಟು ನಿರ್ಮಿಸಿ ದಾಸನಕಟ್ಟಿ ಏತ ನೀರಾವರಿ ಕಾಮಗಾರಿಯನ್ನು ಕೈಗೆತ್ತಿಕೊಳ್ಳಲು ರೂ.19.70 ಕೋಟಿ ಮೊತ್ತಕ್ಕೆ ಕರ್ನಾಟಕ ನೀರಾವರಿ ನಿಗಮದಿಂದ ಅನುಮೋದನೆ ದೊರೆತಿರುತ್ತದೆ. ಸದರಿ ಕಾಮಗಾರಿಯನ್ನು ಟರ್ನ್ ಕೀ ಆಧಾರದ ಮೇಲೆ ರೂ.22.41 ಕೋಟಿ ಮೊತ್ತಕ್ಕೆ ಗುತ್ತಿಗೆ ವಹಿಸಲಾಗಿರುತ್ತದೆ.</p> <p>ಸದರಿ ಯೋಜನೆಯಡಿ ಉಡುಪಿ ತಾಲ್ಲೂಕಿನ ಹಿಲಿಯಾಣ ಹಾಗೂ ಕುಂದಾಪುರ ತಾಲ್ಲೂಕಿನ ಹುಯ್ಯಾರು ಮತ್ತು ವಬಾಡುವಳ್ಳಿ ಗ್ರಾಮಗಳಲ್ಲಿ ಬರುವ ಕೃಷಿ ಜಮೀನುಗಳ ಸುಮಾರು 100 ಹೆಕ್ಟೇರ್ ಪ್ರದೇಶಕ್ಕೆ ನೀರಾವರಿ ಸೌಲಭ್ಯವನ್ನು ಕಲ್ಪಿಸಲು ಉದ್ದೇಶಿಸಲಾಗಿದೆ.</p> <p>ಪ್ರಸ್ತುತ ಕಾಮಗಾರಿ ಪ್ರಗತಿಯಲ್ಲಿದ್ದು, ಆಗಸ್ಟ್-2022 ರ ಅಂತ್ಯಕ್ಕೆ ರೂ.8.98 ಕೋಟಿ ಪ್ರಗತಿ ಸಾಧಿಸಲಾಗಿರುತ್ತದೆ. ಯೋಜನೆಯ ಡಿ.ಪಿ.ಆರ್ ಅನ್ನು ಅನುಬಂಧ-1 ರಲ್ಲಿ ನೀಡಲಾಗಿದೆ.</p>
(ಆ)	ಈ ಯೋಜನೆಯಲ್ಲಿ ವಿದ್ಯುತ್ ಉತ್ಪಾದಿಸುವವರ ಕುಮ್ಮಕ್ಕಿನಿಂದಾಗಿ ವಾರಾಹಿ ಮೂಲ ಯೋಜನೆಯನ್ನು ಕೈಬಿಡಲಾಗಿರುವುದು ನಿಜವೇ; ಇದರಿಂದ ಮೂಲ ನೀರಾವರಿ ಯೋಜನೆ ಪ್ರದೇಶದಲ್ಲಿರತಕ್ಕಂತಹ ರೈತರಿಗಾಗಿರುವ ನಷ್ಟವನ್ನು ಯಾವ ರೀತಿಯಲ್ಲಿ ಸರ್ಕಾರವು ಭರಿಸಿಕೊಡಲಾಗುವುದು?	<p>ವಾರಾಹಿ ನೀರಾವರಿ ಯೋಜನೆಯಡಿಯಲ್ಲಿ, ವಾರಾಹಿ ನದಿಗೆ ಉಡುಪಿ ಜಿಲ್ಲೆ ಕುಂದಾಪುರ ತಾಲ್ಲೂಕಿನ ಸಿದ್ದಾಪುರದ ಬಳಿ ಹೊರಿಯಬ್ಬೆ ಎಂಬಲ್ಲಿ ಒಂದು ಡೈವರ್ಶನ್ ವಿಯರ್‌ನ್ನು ನಿರ್ಮಿಸಿ, ಸದರಿ ಡೈವರ್ಶನ್ ವಿಯರ್‌ನ ಮೇಲ್ಭಾಗದಲ್ಲಿ ಹೊಸಗಂಡಿ ಹತ್ತಿರ ಕರ್ನಾಟಕ ಪವರ್ ಕಾರ್ಪೊರೇಷನ್‌ನವರು ಜಲ ವಿದ್ಯುತ್ ಯೋಜನೆ ನಿರ್ಮಿಸಿರುವ ವಾರಾಹಿ ಜಲ ವಿದ್ಯುತ್ ಯೋಜನೆಯ ಟೇಲ್ ರೇಸ್‌ನಿಂದ ಪ್ರತಿನಿತ್ಯ ಹೊರಬರುವ 1,100 ಕ್ಯೂಸೆಕ್ಸ್ ನೀರನ್ನು ಉಪಯೋಗಿಸಿ ಕೊಂಡು [ಒಟ್ಟು-16.05 ಟಿ.ಎಂ.ಸಿ] ಉಡುಪಿ ಜಿಲ್ಲೆಯ ಕುಂದಾಪುರ ತಾಲ್ಲೂಕು ಮತ್ತು ಉಡುಪಿ ತಾಲ್ಲೂಕಿನ ಗ್ರಾಮಗಳ ಒಟ್ಟು ಸುಮಾರು 15,702 ಹೆಕ್ಟೇರ್ ಪ್ರದೇಶಕ್ಕೆ ನೀರಾವರಿ ಸೌಲಭ್ಯವನ್ನು ಒದಗಿಸುವ ಯೋಜನೆಯಾಗಿರುತ್ತದೆ.</p> <p>ಮುಂದುವರೆದು, ವಾರಾಹಿ ನದಿ ನೀರಿನಿಂದ ವಿದ್ಯುತ್ ಉತ್ಪಾದಿಸಲು ಖಾಸಗಿ ಕಂಪನಿಗೆ ವಾರಾಹಿ ನೀರಾವರಿ ಯೋಜನೆಗೆ ಯಾವುದೇ ರೀತಿಯ ತೊಂದರೆಯಾಗದಂತೆ ಕಿರು ಜಲ ವಿದ್ಯುತ್ ಯೋಜನೆ ಸ್ಥಾಪಿಸಲು ಅನುಮತಿ ನೀಡಲಾಗಿರುತ್ತದೆ.</p> <p>ವಾರಾಹಿ ನೀರಾವರಿ ಯೋಜನೆಯನ್ನು ಅನುಮೋದಿತ ಮೂಲ ಯೋಜನಾ ವರದಿಯಲ್ಲಿರುವಂತೆ 15,702 ಹೆ. ಅಚ್ಚುಕಟ್ಟು ಪ್ರದೇಶಕ್ಕೆ ನೀರಾವರಿ ಸೌಲಭ್ಯ ಕಲ್ಪಿಸುವ ಗುರಿಯೊಂದಿಗೆ ಅನುಷ್ಠಾನಗೊಳಿಸಲಾಗುತ್ತಿದ್ದು, ಕಿರು ಜಲ ವಿದ್ಯುತ್ ಯೋಜನೆಯಿಂದ ಮೂಲ ನೀರಾವರಿ ಯೋಜನೆಯಲ್ಲಿ ಯಾವುದೇ ವ್ಯತ್ಯಾಸವಿರುವುದಿಲ್ಲ.</p>


 (ಗೋವಿಂದ ಬಂ.ಕಾರಜೋಳ)
 ಜಲಸಂಪನ್ಮೂಲ ಸಚಿವರು

Report accompanying the proposal for implementation of Lift irrigation Scheme for providing facility to 100 Ha of land in Hiliyana(Avase GP), Huyyaru and Vabaduvalli(76 Haladi GP) by constructing Vented Dam across Dasanakatte Hole in Haladi Village, Kundapura Taluk of Udupi District

The following three villages in Udupi and Kundapura Taluk of Udupi District are suffering for want of water for irrigation.

1. Hiliyana Village under Avase Gram Panchayat in Udupi Taluk.
2. Huyyaru Village under 76 Haladi Gram Panchayat in Kundapur Taluk.
3. Vabaduvalli Village under Haladi Gram Panchayat in Kundapur Taluk.

All the above three village are within 5 to 6 kms from the Dasanakatte Hole flowing in Haladi Village of Kundapur Taluk. As such, the farmers of these villages are demanding for providing irrigation facility to their lands by lifting water from Dasanakatte Hole.

The Managing Director, KNNL, Benaguru has instructed to take up this work and has allocated a grant of Rs. 9.80 Crores vide letter No. 5023 Dated 09-12-2019. *and for 9.90 cr*

Detailed Survey and investigation has been carried out to take up this scheme. The area to be served in these villages is about 108.51 Ha. For this, area the Crop Water requirement has been worked out and the discharge required to be lifted is ^{0.124}~~0.110~~ Cumecs. Accordingly, The Scheme is proposed to lift ^{0.124}~~0.110~~ Cumecs of water from Dasanakatte Hole and provide irrigation facility to about 108.51 Ha of land in these villages. For this, the following components are proposed under the Scheme.

1. Construction of a Vented Dam with 17 vents across Dasanakatte Hole in Haladi Village of Kundapura Taluk.
2. Construction of jack well cum Pump House on U/S of proposed vented Dam to Accommodate 1 working and 1 Standby pump for lifting required discharge.
3. Providing and laying 300 mm dia, 3mm thick, and MS Rising Main of 2.30 Kms length.
4. Construction of Delivery Chamber.
5. Providing and laying MS and HDPE Gravity Main
6. Constructing of 11 KV Electrical Sub-Station.

7. Providing HDPE Bleeders from gravity Main to feed water to the 5 Nos of Blocks comprising of the ICA of 108.51 Ha irrigation and ~~3 Nos of Tanks.~~
8. Concrete Approach Road of 1.50 Km length from Karemane of Haladi-76 to the proposed Jack well Cum Pump House.

Components wise details are as under:

Vented Dam across Dasanakatte Hole:	
High Flood Level (HGL)	RL 12.055 M
Crest level (FTL)	RL 10.500 M
Cill level	RL 7.500 M
Average bed level of Dasanakatte Hole	RL 7.517 M
Storage height/Height of Shutters	3.00M
Linear water way	84 M
Discharge as per Ryes Formulae	531.00 Cumecs
Discharge as per regional Flood Equation formulated by KERS with 100 years Return Flood with 30% enhancement	791.00 Cumecs
Number and size of vents proposed	17 vents of 4 M x 5.895
Thickness of 16 nos of Intermediate Piers	1.00 M

The Barrage is designed considering the HFL of RL 12.055 M base on the discharge as per Regional Flood equation formulated by KERS for 100 years return Flood and with 30% enhancements in the discharge which works out to 791.00 Cumecs.

Following main components are considered in the estimate of the Barrage.

- i. 0.50 M thick Raft of M-25 Grade concrete below cill level placed over 0.90 M thick M-15 Grade bed concrete
- ii. U/S and D/S launching aprons of 0.60 M thick using thick stones in 2 layers.
- iii. U/S and D/S inverted filters with 600 mm thick stones.
- iv. U/S and D/S solid aprons, Toe walls and cut offs walls of M-20 Grade concrete.
- v. Flume walls, Abutments, Piers using M-25 Grade concrete.
- vi. Fixed wheels type vertical lift gates with hoisting arrangements.
- vii. Provision for 2 Nos of Stop log gates.

viii. 1 M wide Cat walk for the walkway with protective railings.

Intake arrangement:

450mm dia NP-3 pipe of 500 M length is proposed for intake channel portion.

Jack Well cum Pump House:

RCC Circular Pump House of 6.00 M inner diameter to accommodate 2 Nos (1 working + 1 standby) of submersible pumps of ^{210 HP}~~175 HP~~ capacity each is proposed. The Motor floor is kept at RL 13.00 M considering the HFL of 12.055 m of the Dasanakatte Hole. The ground level at pump House site is RL 12.250 M. Necessary provision for 10 T Capacity EOT Crane in the Pump House and for Construction of CC approach road of 1.50 Km length of the Pump House from Karemane of Haladi-76 is also made.

Rising Main

The LWL at Pump House is 8.00 M and Delivery level is 82.00 M. Thus, the static head is 74.00 M and total pumping head including losses is 94.00 M. Considering the velocity of 1.56 m/s, the inner diameter of Rising Main pipe is designed for 300 mm to convey the required discharge of ^{0.124}~~0.110~~ Cumecs up to Delivery Chamber with Delivery level at RL 82.00 M. The thickness of MS pipe Rising main is 3 mm. Inside epoxy coating and 25 mm thick, 1:3 CM guniting on outside for the MS Rsing Main are considered. The total length of MS Rising main is 2.310 Kms.

The MS Rising Main crosses existing Cart tracks, Roads and Nalas and a canal also along its alignment. Below the Nala, Car tracks and road crossing, necessary concrete casing for the MS pipe line is proposed. Further, a structure with RCC slab supported by end abutments and a central pier across the existing canal is also proposed to carry the MS rising Main pipe line across the canal.

Delivery Chamber:

The existing Ground level at the Delivery Chamber site is RL 79.940 M whereas the Delivery level is at RL 82.000 M. The size of the proposed Delivery chamber is 3.0 M x 3.0 M x ^{0.124}~~1.60~~ M considering 90 secs retention period and Rising Main discharge of ^{0.124}~~0.11~~ cumecs. The Rising Main pipe is proposed to enter the delivery Chamber vertically from the bottom floor of the Chamber. Top of delivery pie is kept at RL 81.500 m., considering 0.50 m as the residual

head for pumping the Delivery level is fixed at RL 82.000 m and accordingly the Pumping head has been calculated.

The floor level of the delivery Chamber is RL 79.50 m and invert level of Gravity Main pipe is at RL 80.00m. Thus water cushion of 0.50 m is provided inside the Delivery Chamber.

Gravity Main:

The total length of gravity Main is 2.900 kms From Ch 0.000km to Ch 1.075km, 3mm thick MS gravity Main of ¹⁰⁰380 mm dia meter and from ch 1.075 to ch 2.900 Km HDPE Gravity Main of 180mm diameter are considered as per design.

The designed velocity in MS gravity Main varies from 0.97 m/sec to 0.613 m/sec and velocity in HDPE Gravity Main is 0.463m/sec.

The Gravity Main also crosses existing Cart tracks at 2 locations. Below these cart tracks necessary protective concrete encasing for the Gravity Main Pipe is considered.

Electrical Sub-Station, Trasmision line and Termianl Bay:

For the present Schme, 11 KV Electrical Sub-station is prosed at Jack well cum Pump House site. The required power is drawn from the Haladi Express Feeder line through 1.50kms length 11 KV Transmission line up to the proposed Pump House. Provision for necessary terminal Bay is also made is estimate.

HDPE Bleeders to feed water to fields and tanks:

The total proposed ICA of 108.510 HA comprises of 5 nos of blocks, details of which are given below;

Sl No	Outlet for Block at	Taluk	Off take chainage along gravity Main(Km)	ICA(Ha)	Required Discharge (cumecs)
1	Haladi-76	Kundapura	0.00	16.57	0.0168 0.0189
2	Haladi-76	Kundapura	0.31	23.40	0.0237 0.0267
3	Hiliyana	Udupi	0.55	28.94	0.0293 0.033
4	Hiliyana	Udupi	0.70	30.41	0.0308 0.0318
5	Haladi-76	Kundapura	1.24	9.19	0.0093 0.0125
				Total	108.51
					0.1099 0.129

Necessary HDPE Bleeders from gravity Main to feed water to the above 5 blocks are proposed (~~HDPE Bleeder, one from ch-1.900km and the other two at tail end chainage of 2.900 km are proposed from gravity main to feed the 3 no's of tanks, when water is not fed to the 5 blocks for irrigation.~~

Operation and Maintenance:

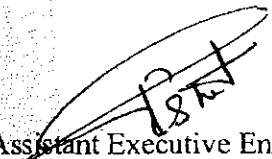
Provision of Rs 24.50 Lakhs is made in the estimate for Operation and Maintenance of the Scheme for 5 years after completion of all works satisfactorily.

The component wise design, drawings and estimates are enclosed separately.


In preparing the estimate of the Scheme, the item wise rates are worked out by adopting WRD SR and PWD Mangalore Circle SR of 2018-2019 continued to 2019-2020 and considering the approved issues rates of cement and steel for the 4th quarter of 2019-20.


The total estimated cost of the Scheme works out to RS ~~19700~~¹⁹⁷⁰⁰⁰ Lakhs inclusive of GST, 3% contingencies and rounding.

The estimates is submitted for kind perusal and further needful.


Assistant Executive Engineer,

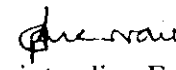
KNNL, VRP Sub-Division-3

 Siddapura.


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