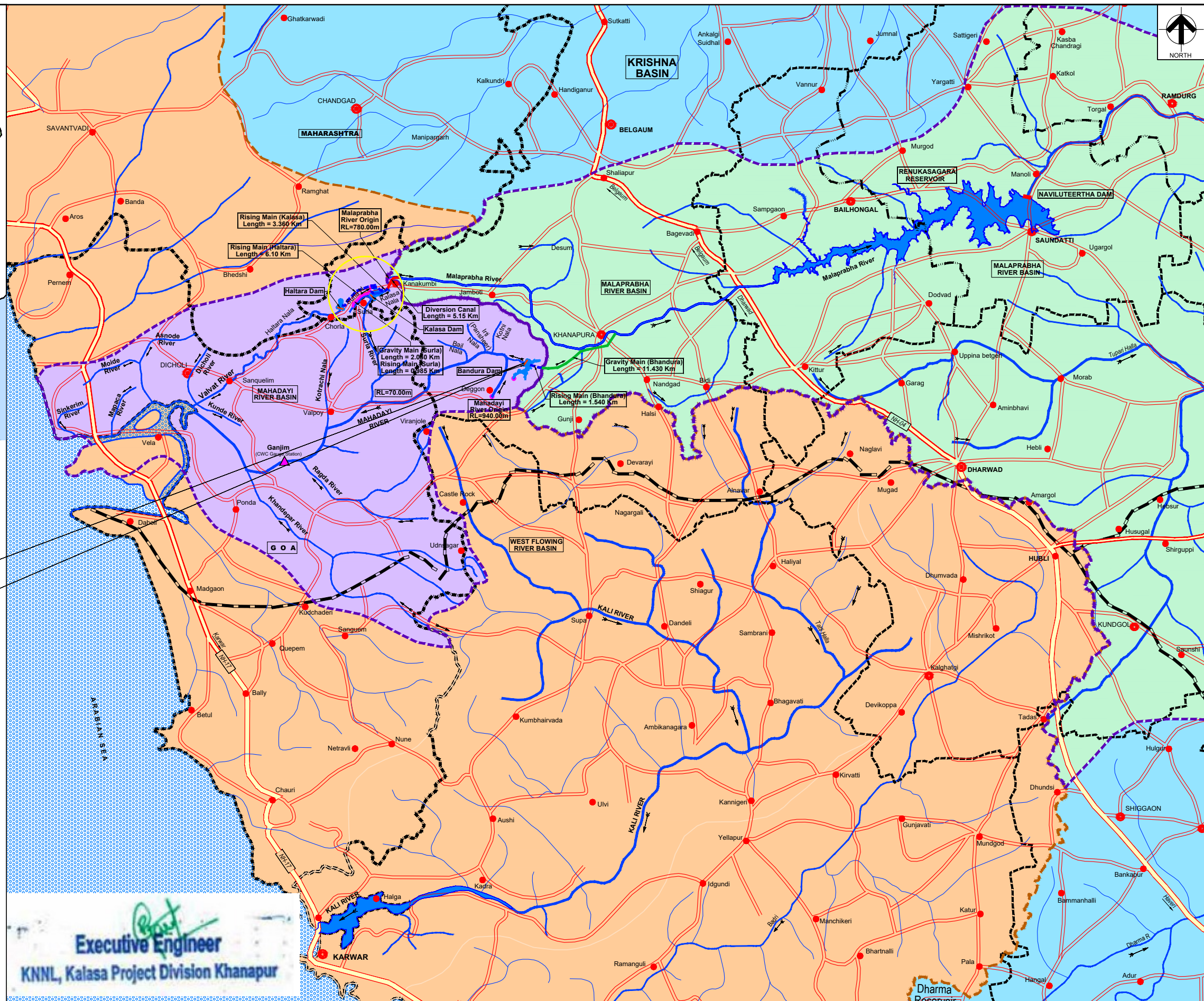
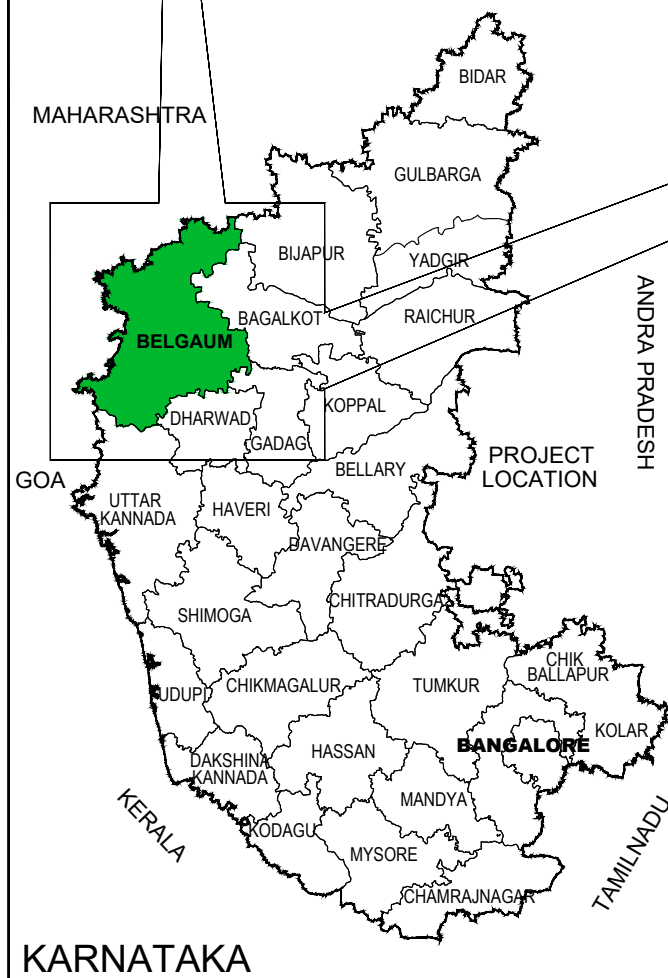


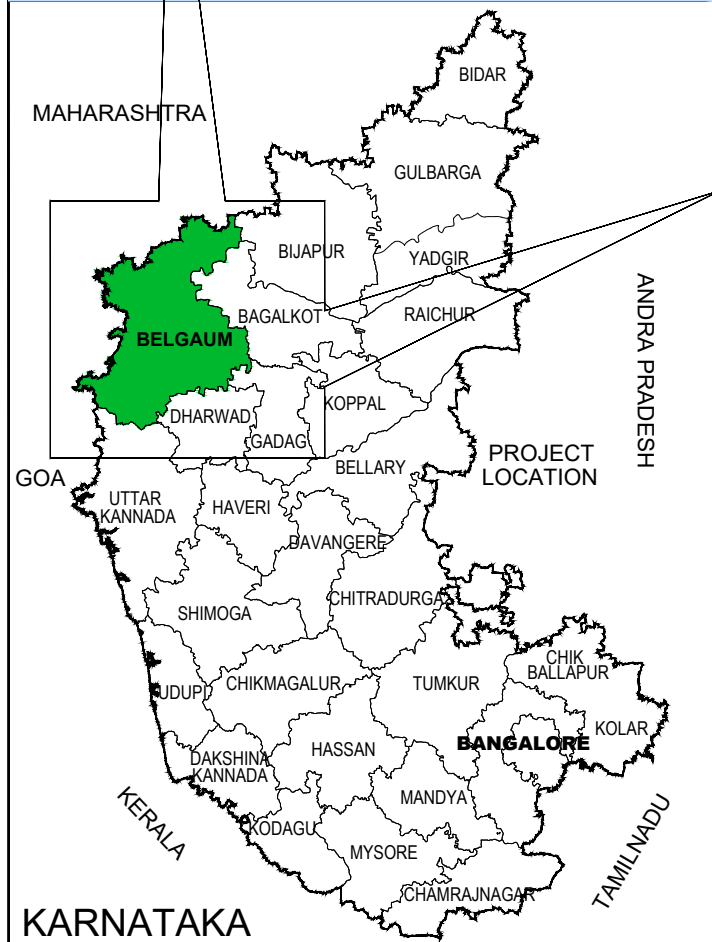


Executive Engineer
KNNL, Kalasa Project Division Khanapur

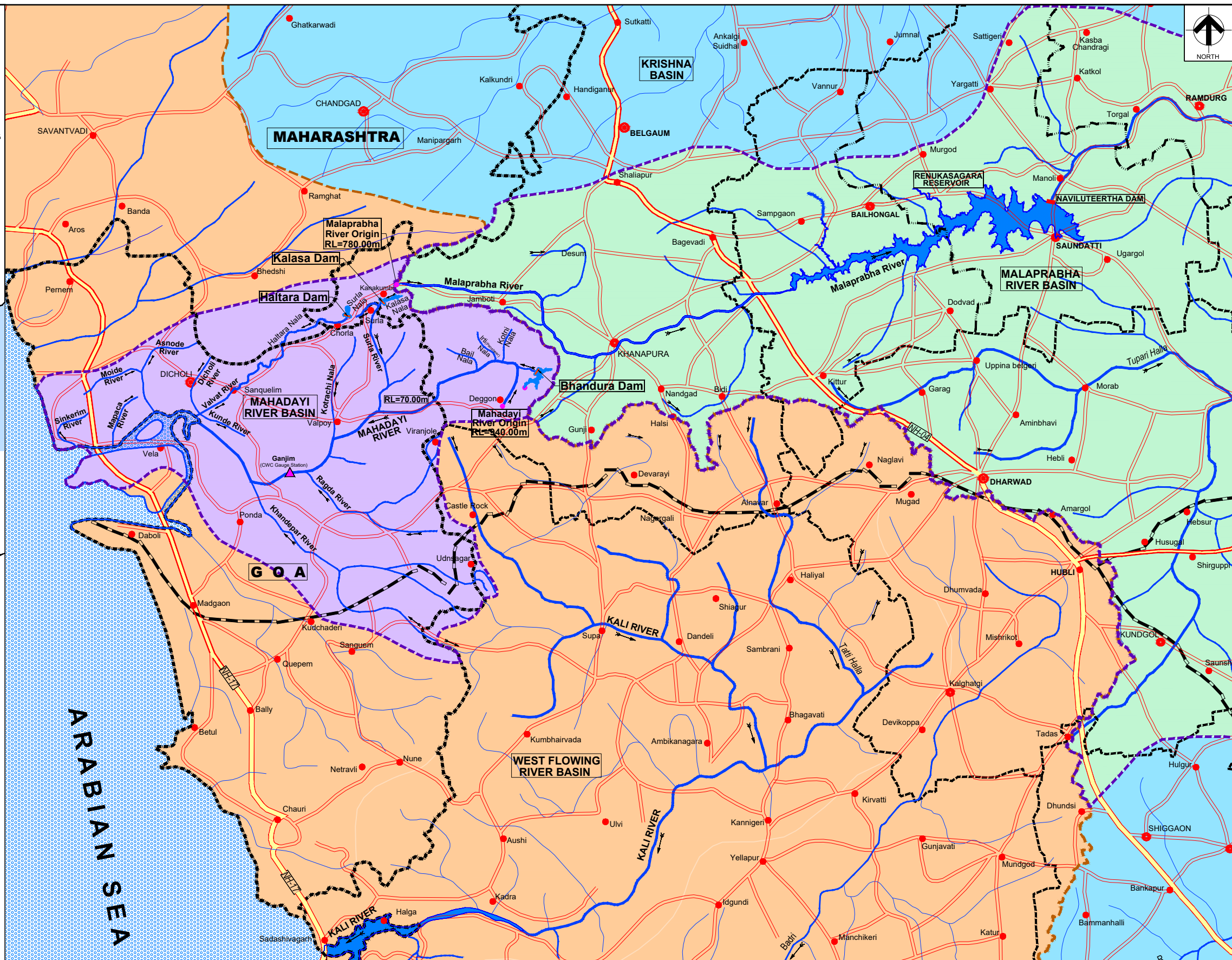
Client
**KARNATAKA NEERAVARI NIGAM LIMITED**
(A GOVT. OF KARNATAKA UNDERTAKING)
BANGALORE - 560 001

Kalasa Nala Diversion Scheme (Lift Scheme)
Volume-III - Drawings

Consultant
**E I Technologies Private Limited**
(ISO 9001 : 2015 Certified)
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Bengaluru - 560 041, India.
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info@eitech.in • www.eitech.in

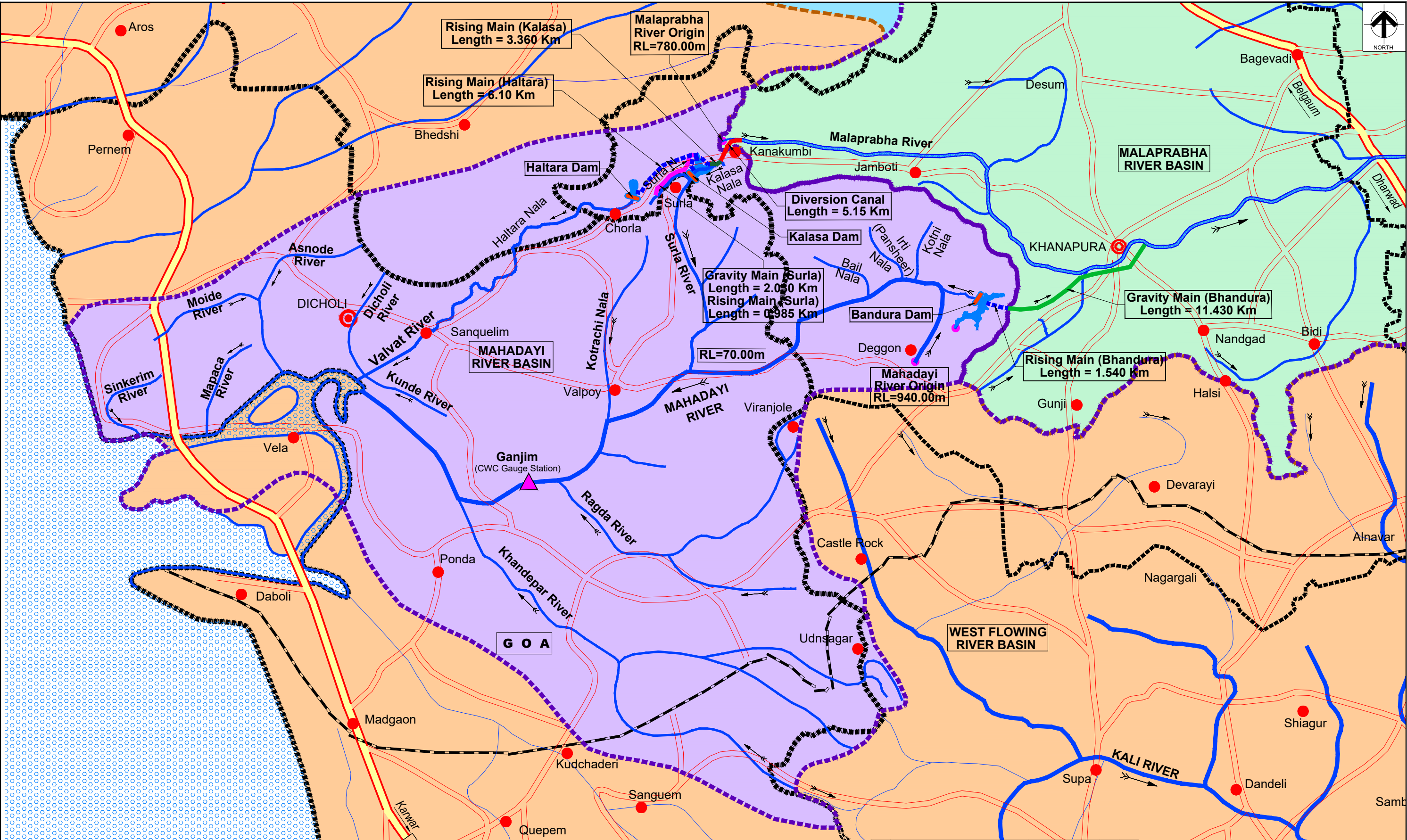


LEGEND	
ROADS	
National Highway	— NH—
State Highway	— SH—
Other Roads	—
BOUNDARY	
State Boundary	—
District Boundary	—
Taluk Boundary	—
NAMES	
District Name	•••
Taluk Name	•••
Village Name	•••
WATER FEATURES	
River	—
Reservoir	—



Executive Engineer
KNKL, Kalasa Project Division Khanapur

0	For Approval	15.12.22	GGR	AK	SN	NR	DRAWING TITLE		
Rev.	Description	Date	Drw.	Dsg.	Chk.	App.	Index Map Showing Mahadayi & Malaprabha River Basin		
CLIENT							Date	Drw.	Dsg.
KARNATAKA NEERAVARI NIGAM LIMITED (A GOVT. OF KARNATAKA UNDERTAKING) BANGALORE - 560 001							15.12.2022	GGR	AK
CONSULTANT							Project No.	Drawing No.	Chk.
E I Technologies Private Limited, (ISO 9001 : 2015 Certified) # 1149, 26th Main, Jayanagar 4th 'T' Block Bangalore - 560 041, India. Ph: +91.80.40914714, Fax: +91.80.26650912 info@eitech.in • www.eitech.in							1376X	AK	SN
PROJECT TITLE							Drawing Status FOR APPROVAL		
Kalasa Nala Diversion Scheme (Lift Scheme)							Sheet No.	Rev.	0
							1376X	01 of 01	0
							Executive Engineer KNKL, Kalasa Project Division, Khanapur.		
							Superintending Engineer, KNKL, Malaprabha Project Zone, Dharwad.		

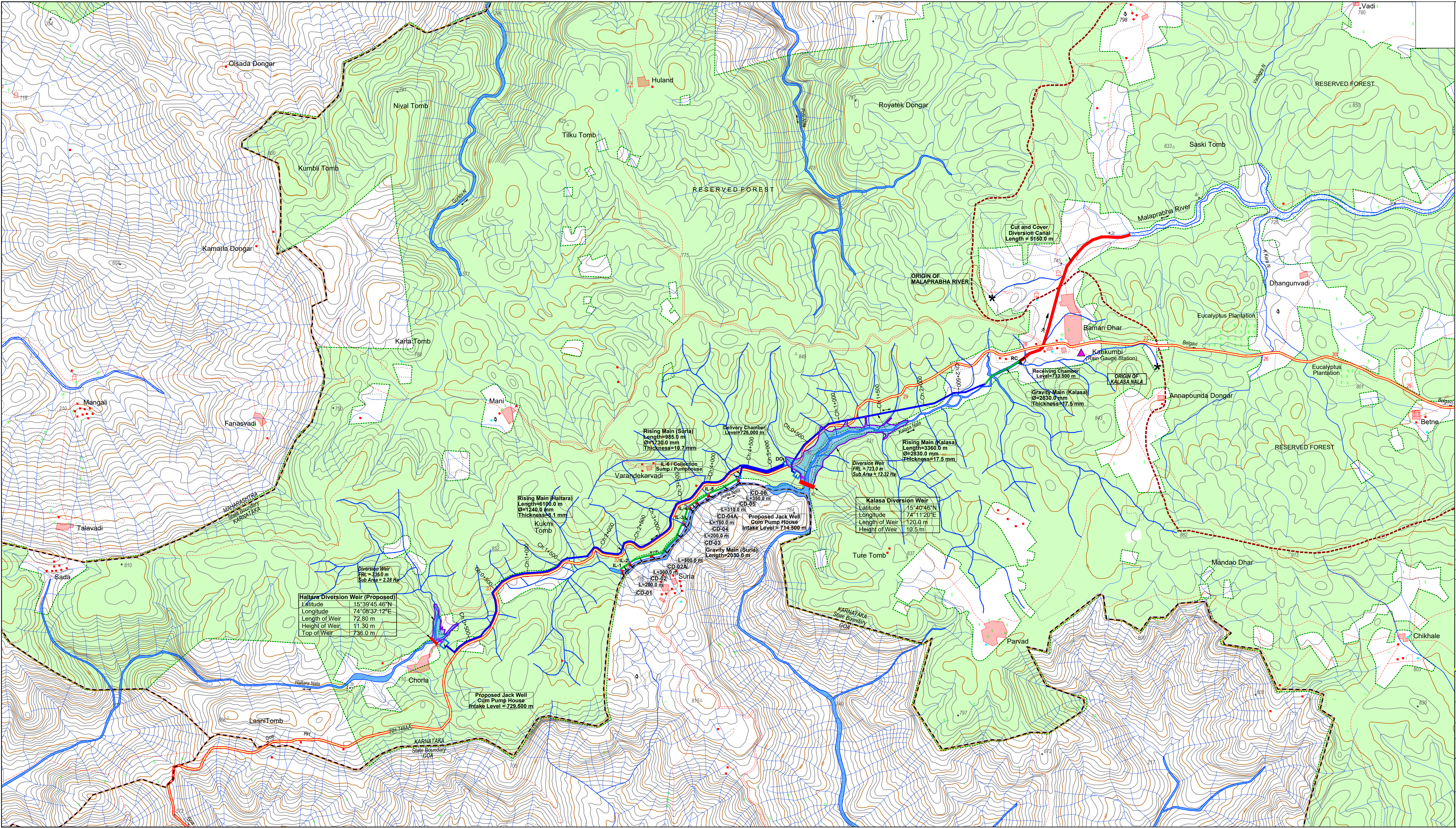


LEGEND	
ROADS	
National Highway	—
State Highway	—
Other Roads	—
BOUNDARY	
State Boundary	—
District Boundary	—
Taluk Boundary	—
NAMES	
District Name	•
Taluk Name	•
Village Name	•
WATER FEATURES	
River	—
Reservoir	—

Executive Engineer
KNNL, Kalasa Project Division Khanapur

0	For Approval	15.12.22	GGR	AK	SN	NR
Rev.	Description	Date	Drw.	Dsg.	Chk.	App.
CLIENT						
KARNATAKA NEERAVARI NIGAM LIMITED (A GOVT. OF KARNATAKA UNDERTAKING) BANGALORE - 560 001						
CONSULTANT						
E I Technologies Private Limited, (ISO 9001 : 2015 Certified) # 1149, 26th Main, Jayanagar 4th 'T' Block Bangalore - 560 041, India. Ph: +91.80.40914714, Fax: +91.80.26650912 info@eitech.in • www.eitech.in						
PROJECT TITLE						
Kalasa Nala Diversion Scheme (Lift Scheme)						

DRAWING TITLE						
MASTER PLAN						
Date	Drw.	Dsg.	Chk.	App.	Scale	Drawing Status
15.12.2022	GGR	AK	SN	NR	AS SHOWN	FOR APPROVAL
Project No.	Drawing No.	Sheet No.				Rev.
1376X	EIT-1376X-WRE-KN-IND-A001A	01 of 01				0
Executive Engineer KNNL, Kalasa Project Division, Khanapur.			Superintending Engineer, KNNL, Malaprabha Project Zone, Dharwad.			



Legend

Roads
National Highway, State Highway, Other Roads
Unmetalled Roads, Cart track, Foot path

Railways
Broad gauge with station, Other gauge

Boundary
State, District, Taluk, Forest

Buildings
Temple, Chattri, Tomb, Mosque, Graves, Village limits, Hut

Transmissions Lines
Main power line, Power line, Telephone lines

Heights
Relation spot height, Spot height, Triangle station
Contour with value, Bench mark
Ground Control Point, Secondary Control Point, Temporary Benchmark
Water Features
River, Reservoir, Canal, Channel, Stream
Pond, Well, Tank

Other Features
Climits, Embankment, Culvert, Gate, Broken ground
Tree, Cross, Wire Fence, Cliff
Sheet rock, Rocky Area, Boulders
Ridge Line, Diversion Canal, Diversion Weir
Submergence Area, Catchment Area

Legend:

Intake Channel
Rising Main
Gravity Main
CD (Check Dam)

Executive Engineer
KNNL, Kalasa Project Division Khanapur

0	For Approval	15.12.2022	GGR	RU	SN	NR
Rev.	Description	Date	Drw.	Dsg.	Chk.	App.

Owner
Karnataka Neeravari Nigam Limited (KNNL)
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Bangalore - 560 001, India.
www.knnlindia.com

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Ph:+91 80 40914714 / 40914961
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Project Title
Kalasa Nala Diversion Scheme
(Lift Scheme)

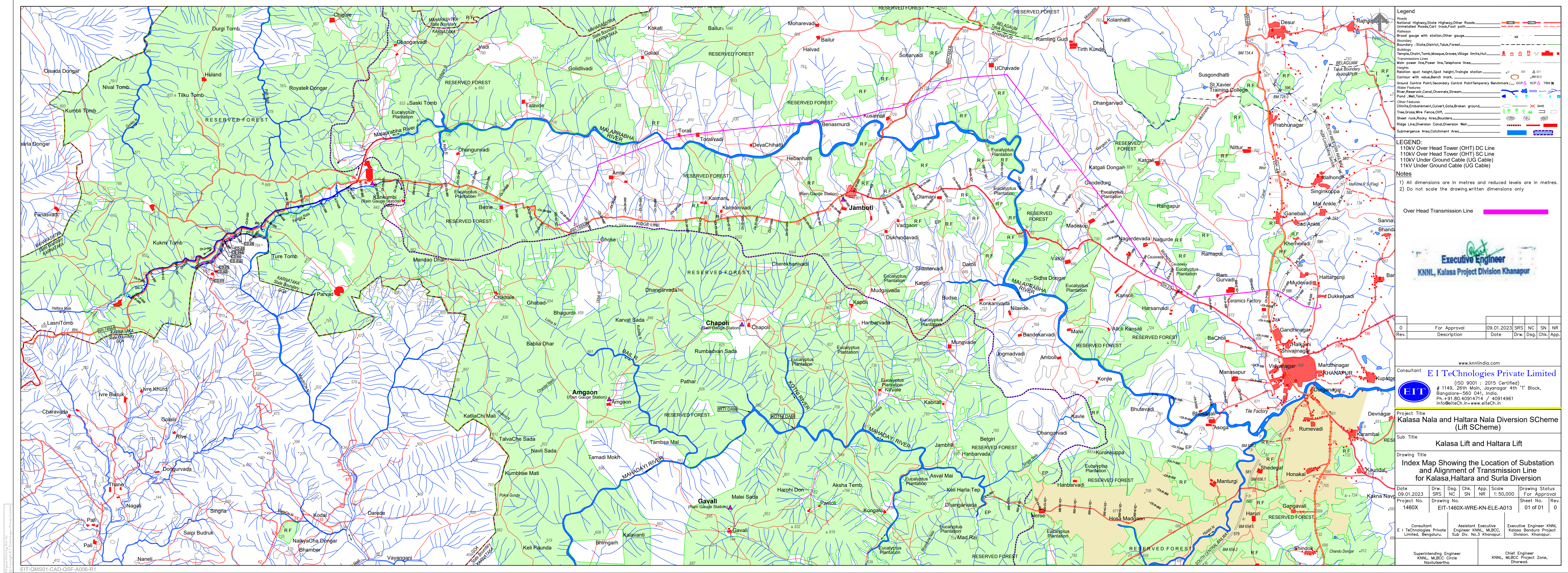
Drawing Title
Index Map of Scheme

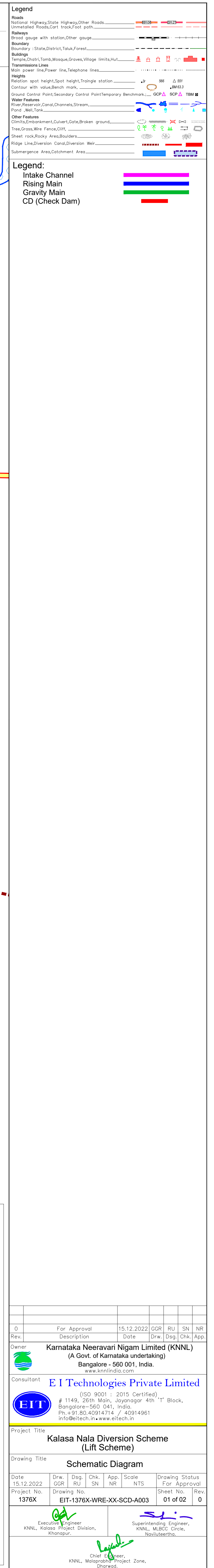
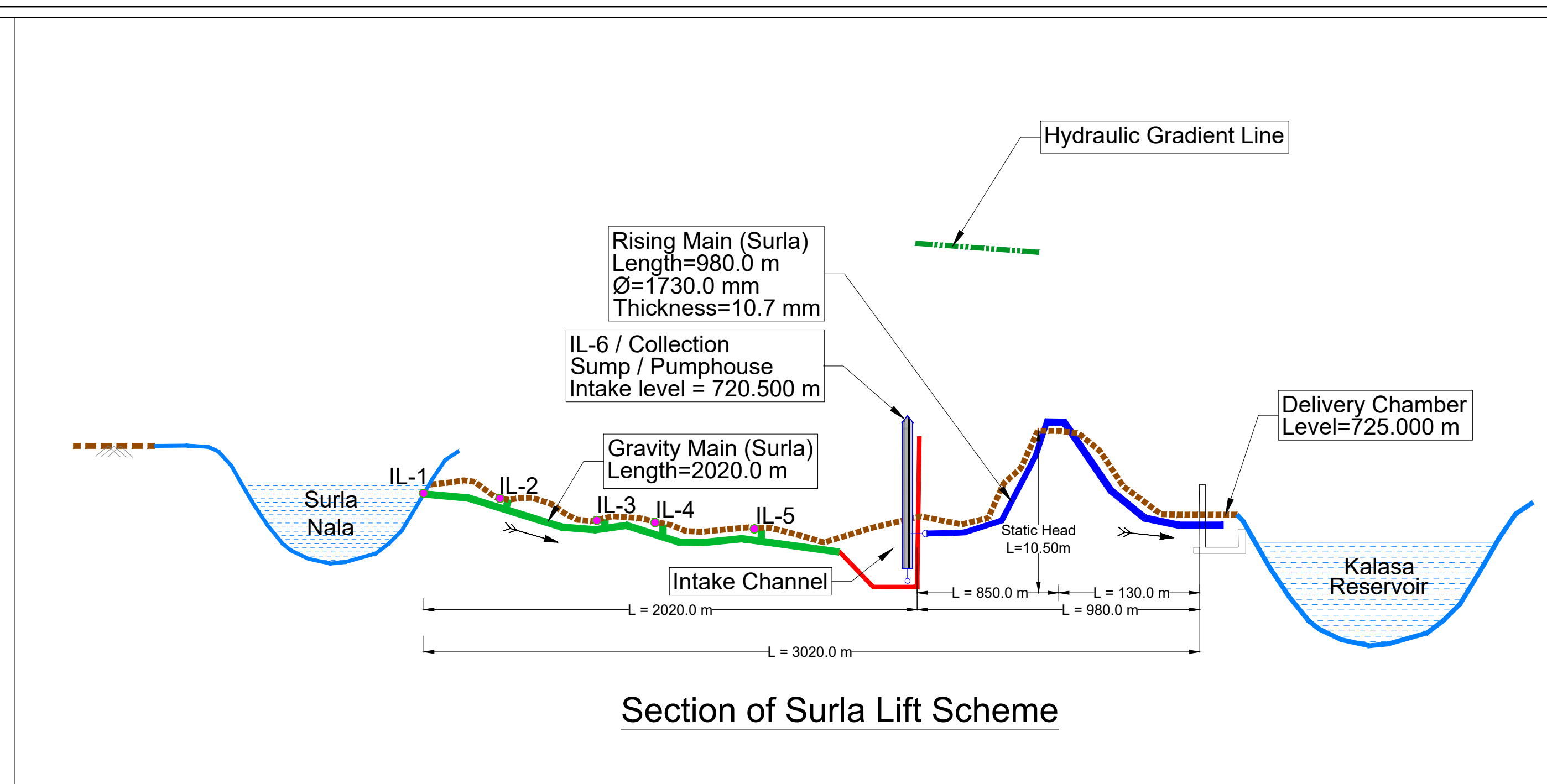
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Project No. 1376X	Drawing No. EIT-1376X-WRE-XX-IND-A001B				Sheet No. 01 of 01	Rev. 0

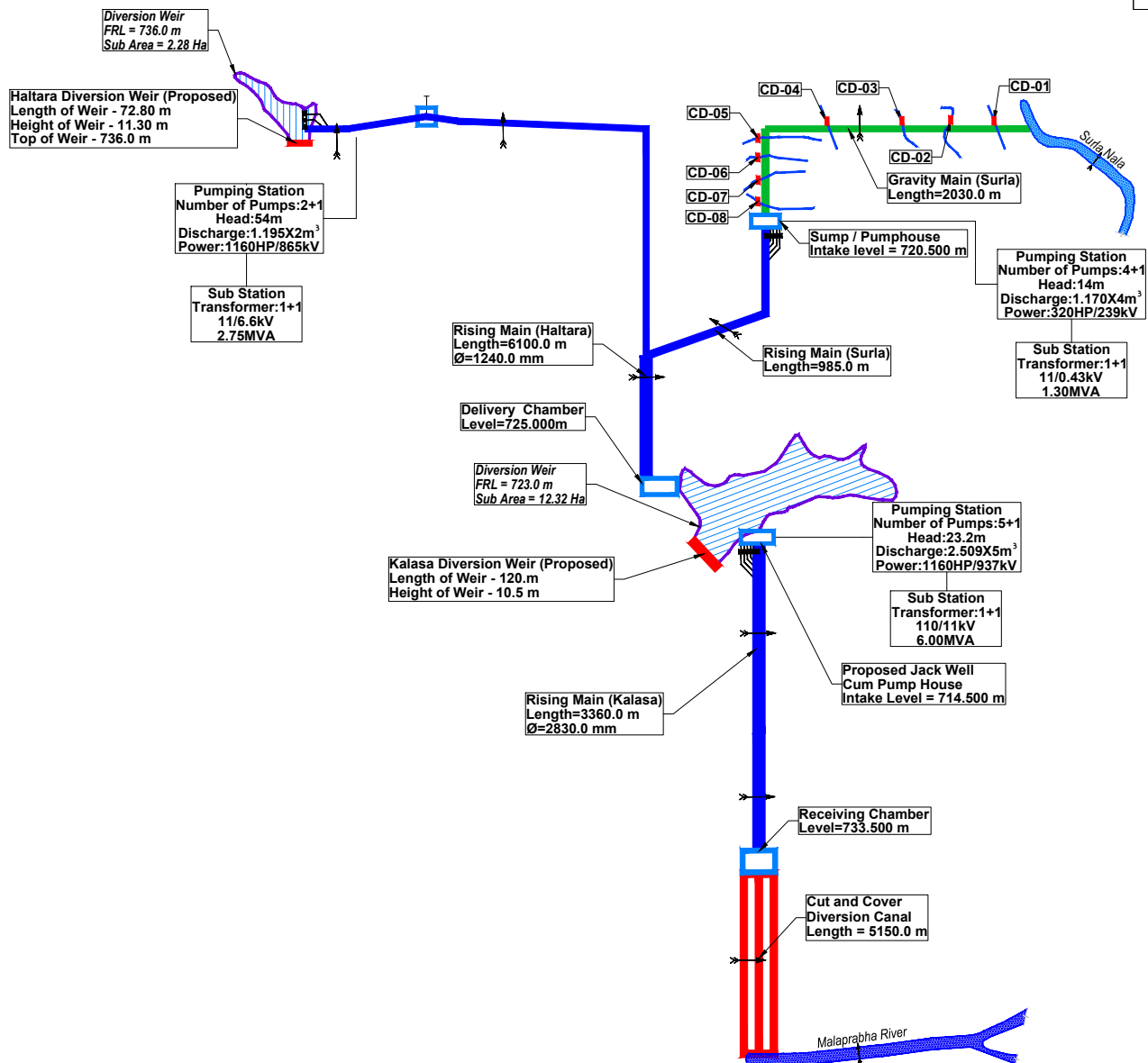
Executive Engineer
KNNL, Kalasa Project Division,
Khanapur.

Superintending Engineer
KNNL, MBCC Circle,
Naviyalethe.

Chief Engineer
KNNL, Malaprabha Project Zone,
Dharwad.







Legend:

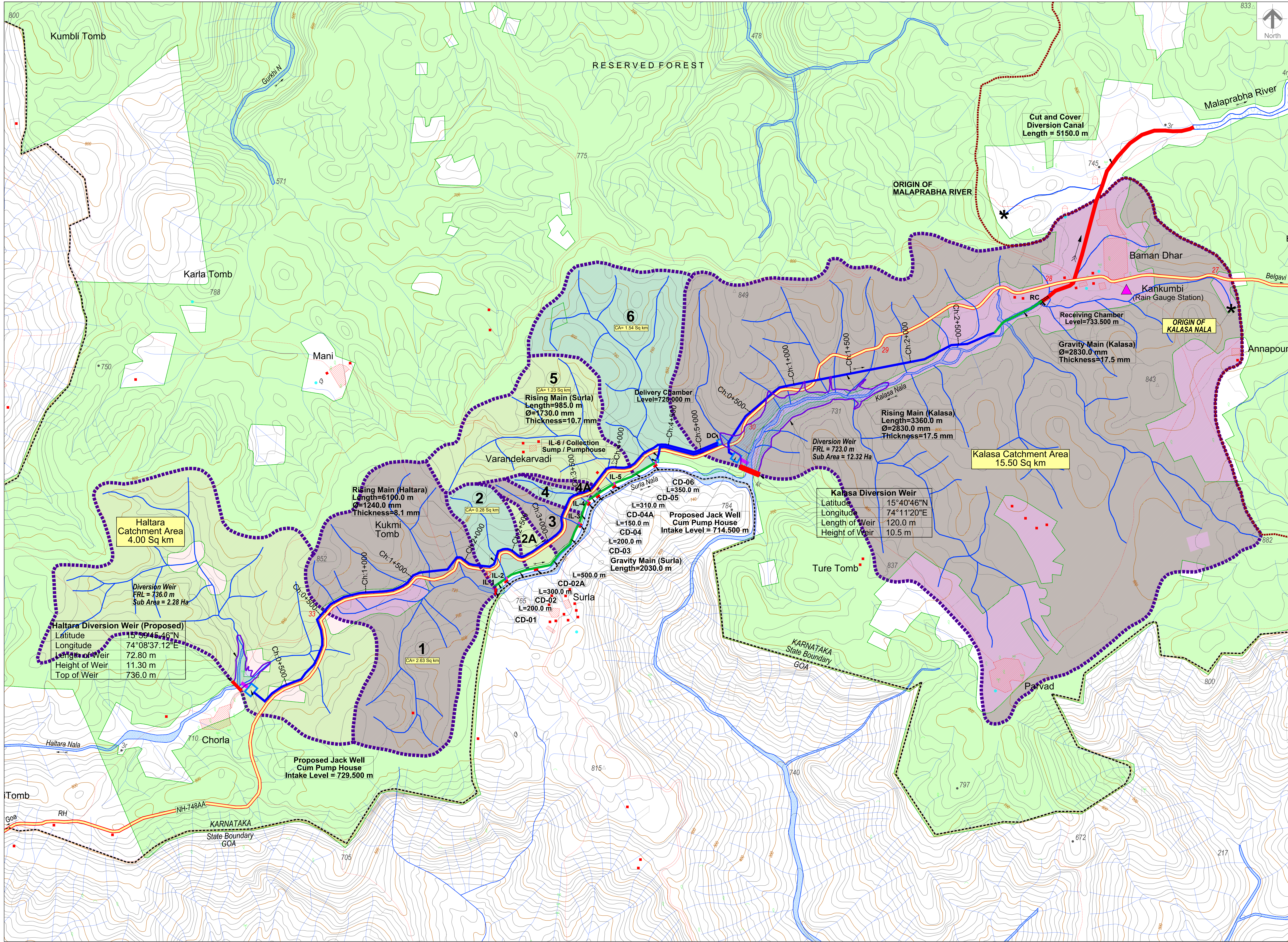
Rising Main
Gravity Main
CD (Check Dam)



0	For Approval	15.12.2022	GGR	RU	SN	NR
Rev.	Description	Date	Drw.	Dsg.	Chk.	App.
Owner	Karnataka Neeravari Nigam Limited (KNNL) (A Govt. of Karnataka undertaking) Bangalore - 560 001, India. www.knnlindia.com					
CONSULTANT	E I Technologies Pvt. Ltd., (ISO 9001 : 2015 Certified) # 1149, 26th Main, Jayanagar 4th 'T' Block, Bangalore-560 041, India. Ph.+91.80.40914714 / 40914961 info@eitech.in • www.eitech.in					
PROJECT TITLE						
Halthara Nala Diversion Scheme (Lift Scheme)						

DRAWING TITLE						
Kalasa Nala Diversion Scheme (Lift Scheme)						
Date	Drw.	Dsg.	Chk.	App.	Scale	Drawing Status
15.12.2022	GGR	RU	SN	NR	AS SHOWN	For Approval
Project No.	Drawing No.				Sheet No.	Rev.
1376X	EIT-1376X-WRE-XX-SCD-A003				02 of 02	0
 Executive Engineer KNNL, Kalasa Project Division, Khanapur.			 Superintending Engineer, KNNL, MLBC Circle, Naviluteertha.			
 Chief Engineer, KNNL, Malaprabha Project Zone, Dharwad.						

EIT-QMS01-CAD-QSF-A006-R0



Legend

Intake Channel
Rising Main
Gravity Main
CD (Check Dam)

Suria Lift Catchment Area

Suria Nala - 1	2.63 Sq Km.
Suria Nala - 2	0.28 Sq Km.
Suria Nala - 3	0.00 Sq Km.
Suria Nala - 4	0.00 Sq Km.
Suria Nala - 5	0.00 Sq Km.
Suria Nala - 6	0.00 Sq Km.
Suria Nala - 7	1.23 Sq Km.
Suria Nala - 8	1.54 Sq Km.
Total Suria Catchment Area	6.00 Sq Km.

Kalasa Diversion Weir

Latitude	15°40'46"N
Longitude	74°11'20"E
Length of Weir	120.0 m
Height of Weir	10.5 m

Suria Catchment Area

Suria Nala - 1	2.63 Sq Km.
Suria Nala - 2	0.28 Sq Km.
Suria Nala - 3	0.00 Sq Km.
Suria Nala - 4	0.00 Sq Km.
Suria Nala - 5	0.00 Sq Km.
Suria Nala - 6	0.00 Sq Km.
Suria Nala - 7	1.23 Sq Km.
Suria Nala - 8	1.54 Sq Km.
Total Suria Catchment Area	6.00 Sq Km.

Executive Engineer
KNNL, Kalasa Project Division Khanapur

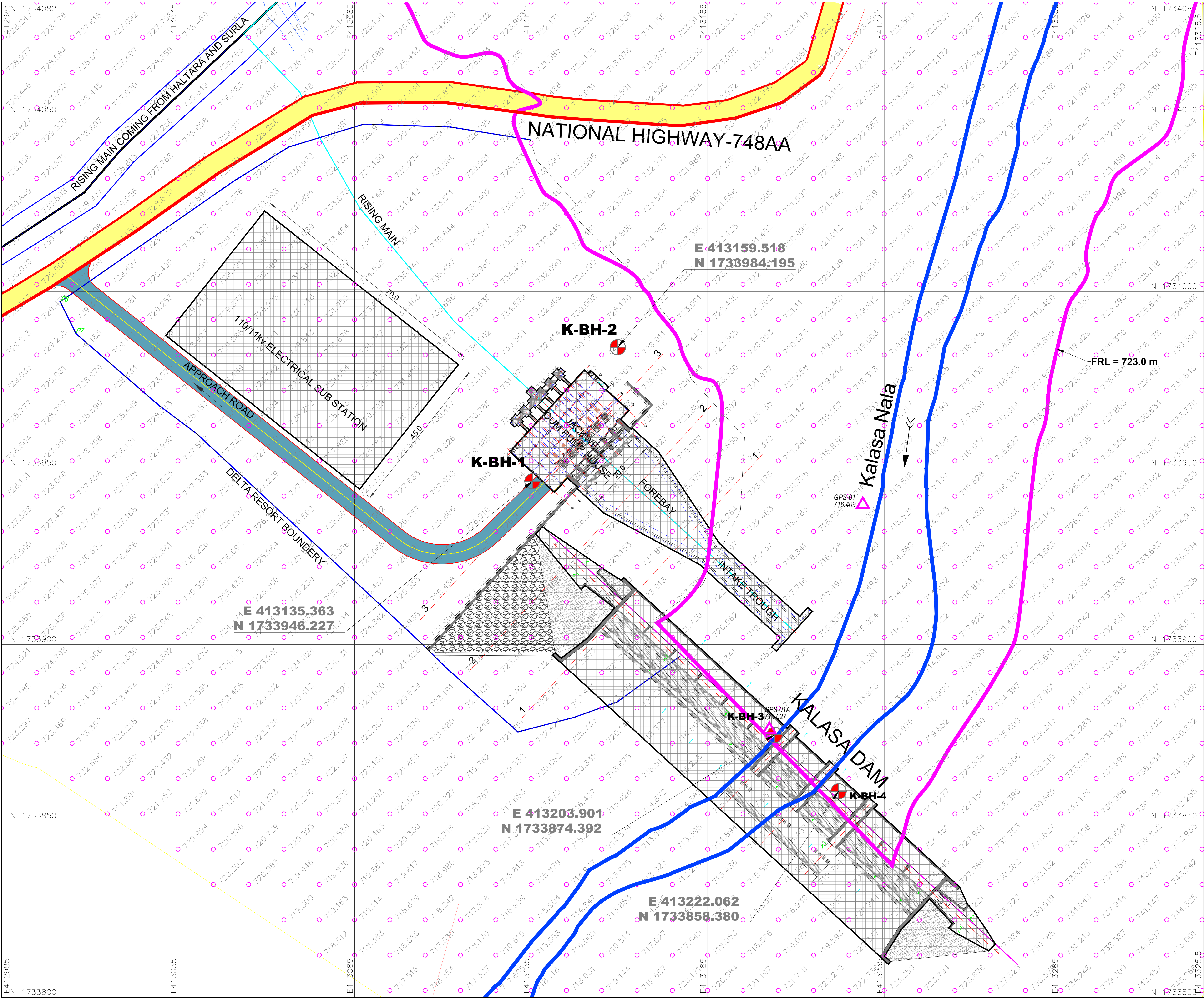
E I Technologies Private Limited
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Ph: +91 80 800 0714 / 74094961
info@eitech.in www.eitech.in

Project Title
Kalasa Nala Diversion Scheme (Lift Scheme)

Drawing Title
Catchment Area Map

Date	15.12.2022	Drawn	DRG	Check	DRG	Scale	1:10,000	Drawing Status	For Approval
Project No.	1370X	Drawn By	DRG	Check By	DRG	Sheet No.	01 of 01	Rev	0

Executed by: KNNL, Kalasa Project Division, Khanapur.
Supervising Engineer: KNNL, Kalasa Project Division, Khanapur.



Legend

Roads
National Highway, State Highway, Other Roads
Unmetalled Roads, Cart track, Foot path

Railways
Broad gauge with station, Other gauge

Boundary
Village, District, Taluk, Forest

Buildings
Temple, Chattri, Tomb, Mosque, Graves, Village limits, Hut

Transmission Lines
Main power line, Power line, Telephone lines

Heights
Relation spot height, Spot height, Trailing station

Ground Control Point, Secondary Control Point, Temporary Benchmark

Water Features
River, Reservoir, Canal, Channels, Stream

Pond, Well, Tank

Other Features
Climax, Embankment, Culvert, Gate, Broken ground, Tree, Grass, Wire Fence, Cliff, Sheet rock, Rocky Area, Boulders

Notes :

1. All dimensions are in metres unless otherwise specified.

2. Co-ordinates are based on UTM co-ordinates obtained using hand held GPS.

Executive Engineer
KNNL, Kalasa Project Division Khanapur

Owner
Karnataka Neeravari Nigam Limited (KNNL)
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www.knnlindia.com

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Project Title
Kalasa Nala Diversion Scheme
(Lift Scheme)

Sub Title
Kalasa Nala Diversion Dam

Drawing Title
Block Levels Plan

Date	Drw.	Dsg.	Chk.	App.	Scale	Drawing Status
15.12.2022	GGR	AK	SN	NR	1:500	For Approval

Project No.
1376X

Drawing No.
EIT-1376X-WRE-KN-BLP-A010

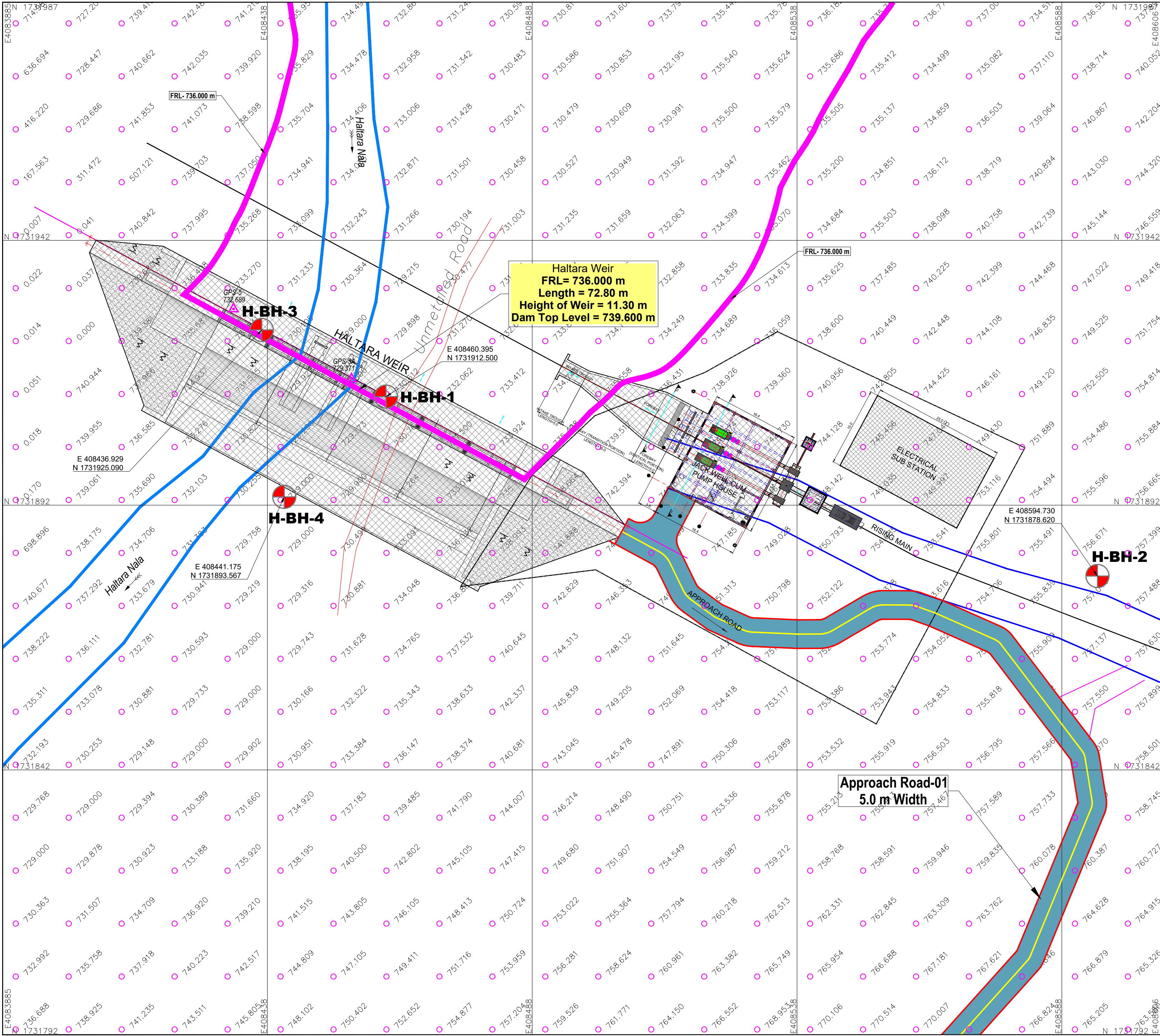
Sheet No.
01 of 01

Rev.
0

Executive Engineer
KNNL, Kalasa Project Division,
Khanapur.

Superintending Engineer
KNNL, MLBC Circle,
Navilurthi.

Chief Engineer
KNNL, Malaprabha Project Zone,
Dharwad.



Legend

Roads
National Highway, State Highway, Other Roads, Unmetalled Roads, Cart track, Foot path.

Railways
Broad gauge with station, Other gauge.

Boundary
Boundary : State, District, Taluk, Forest.

Buildings
Temple, Chatri, Tomb, Mosque, Graves, Village limits, Hut.

Transmissions Lines
Main power line, Power line, Telephone lines.

Heights
Relation spot height, Spot height, Triangle station, Contour with value, Bench mark, Ground Control Point, Secondary Control Point, Temporary Benchmark.

Water Features
River, Reservoir, Canal, Channels, Stream, Pond, Well, Tank.

Other Features
Limits, Embankment, Culvert, Gate, Broken ground, Tree, Grass, Wire Fence, Cliff, Sheet rock, Rocky Area, Boulders.

Notes :

1. All dimensions are in metres unless otherwise specified,
2. Co-ordinates are based on UTM co-ordinates obtained using hand held GPS.

Executive Engineer
KNNL, Kalasa Project Division Khanapur

0	For Approval	15.12.2022	GGR	AK	SN	NR
Rev.	Description	Date	Drw.	Dsg.	Chk.	App.

Owner
Karnataka Neeravari Nigam Limited (KNNL)
(A Govt. of Karnataka undertaking)
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www.knnlindia.com

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Ph.+91.80.40914714, Fax: +91.80.26650912
info@eitech.in • www.eitech.in

Project Title
Kalasa Nala Diversion Scheme (Lift Scheme)

Sub Title
Haltara Nala Diversion Dam

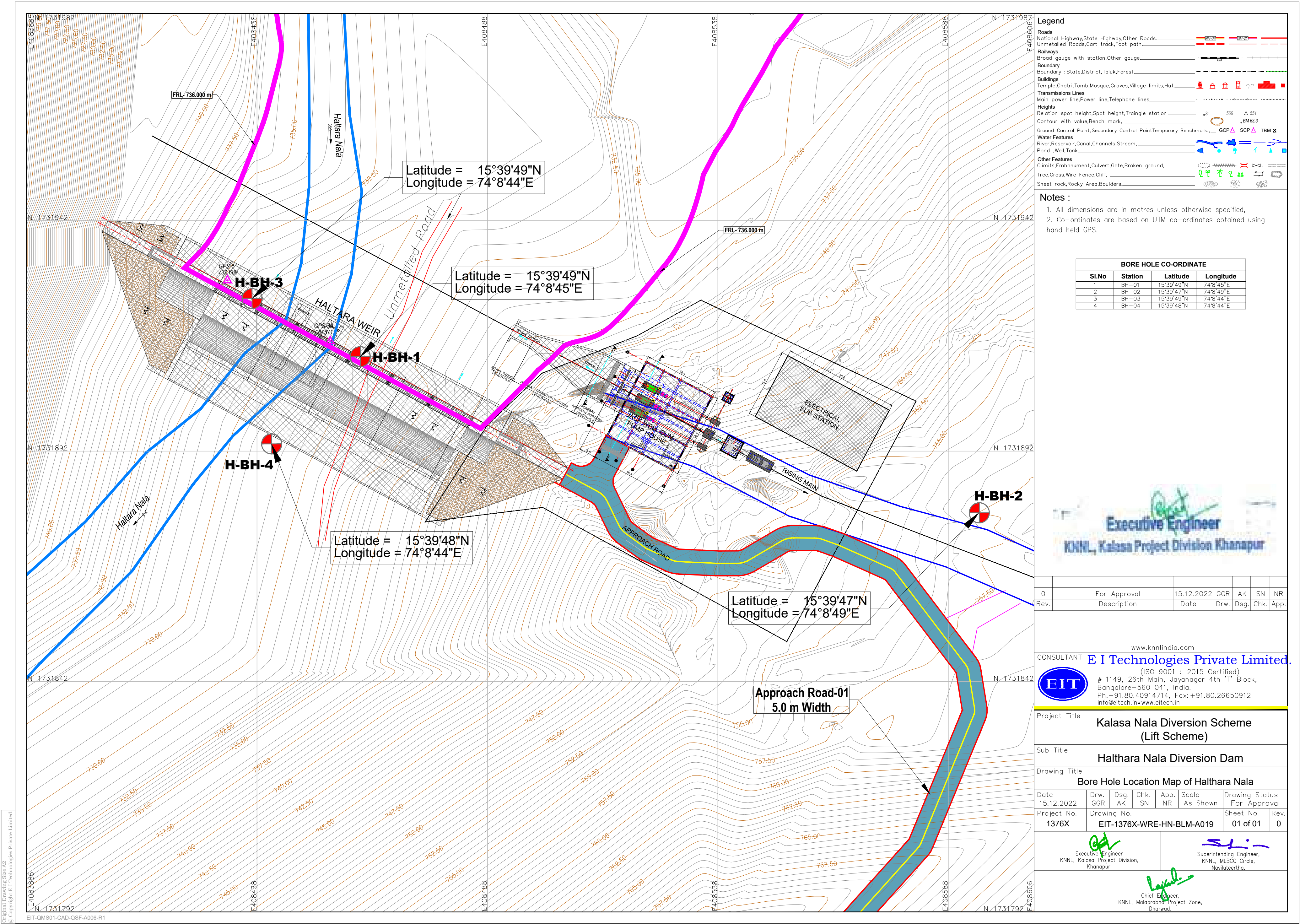
Drawing Title
Block Levels Plan

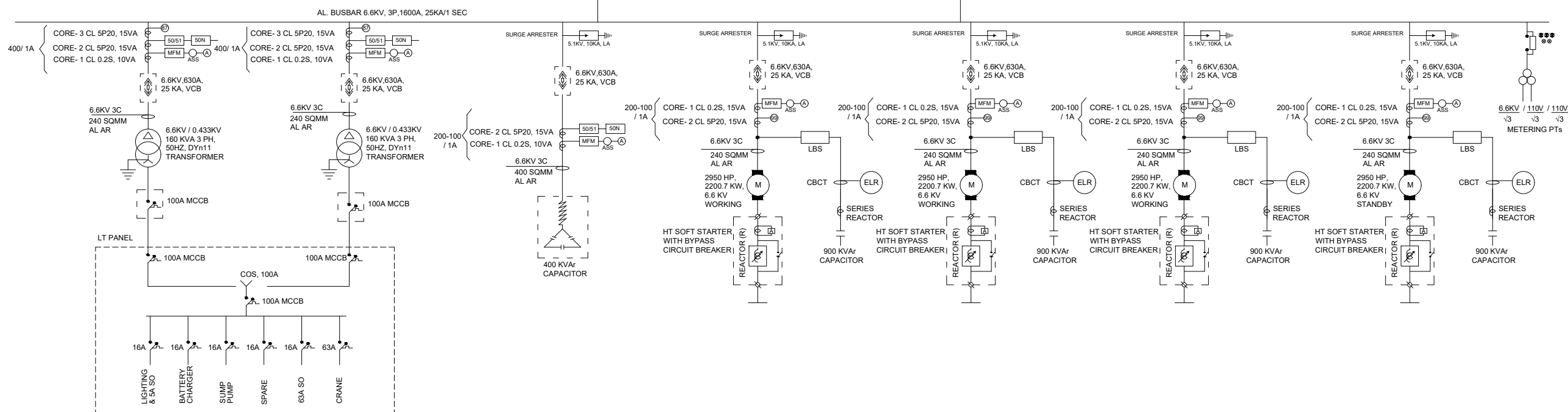
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Project No. 1376X	Drawing No. EIT-1376X-WRE-XX-BLP-A018				Sheet No. 01 of 01	Rev. 0

Executive Engineer
KNNL, Kalasa Project Division,
Khanapur.

Superintending Engineer,
KNNL, MLBCC Circle,
Naviluteertha.

Chief Engineer,
KNNL, Malaprabha Project Zone,
Dharwad.





Notes :

1. All dimensions are in millimeters and reduced levels are in meters.
2. Do not scale the drawing. Written dimensions only shall be followed

Executive Engineer
KNNL, Kalasa Project Division Khanapur

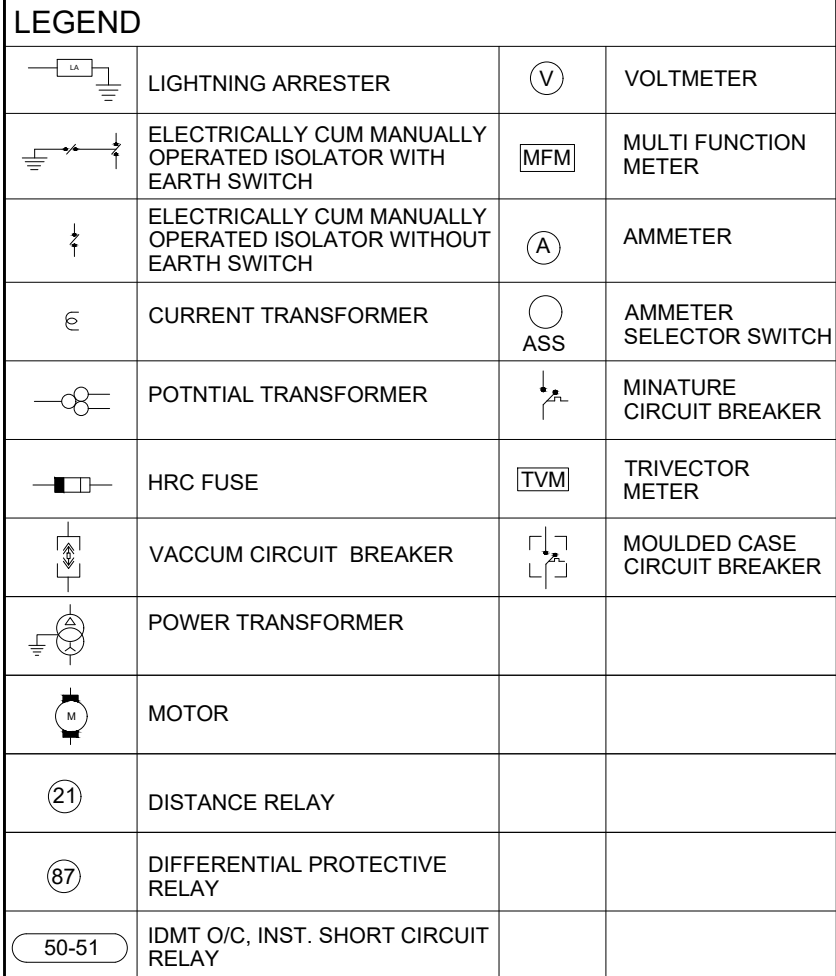
Owner  **Karnataka Neeravari Nigam Limited (KNNL)**
(A Govt. of Karnataka undertaking)
Bangalore - 560 001, India.
www.knnlindia.com

(ISO 9001 : 2015 Certified)
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Bangalore-560 041, India.
Ph.+91.80.40914714 / 40914961
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Sub Title	Kalasa Lift
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Date 15.12.2022	Drw. GGR	Dsg. AK	Chk. SN	App. NR	Scale As Shown	Drawing Status For Approval	
Project No. 1376X	Drawing No. EIT-1376X-WRE-KN-SLD-A070					Sheet No. 01 of 01	Rev. 0

Chief Engineer,
KNNL, Malaprabha Project Zone,
Dharwad.



Executive Engineer
KNNL, Kalasa Project Division Khanapur

Owner	Karnataka Neeravari Nigam Limited (KNNL) (A Govt. of Karnataka undertaking) Bangalore - 560 001, India. www.knnlindia.com
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Project Title	Haltara Nala Diversion Scheme (Lift Scheme)
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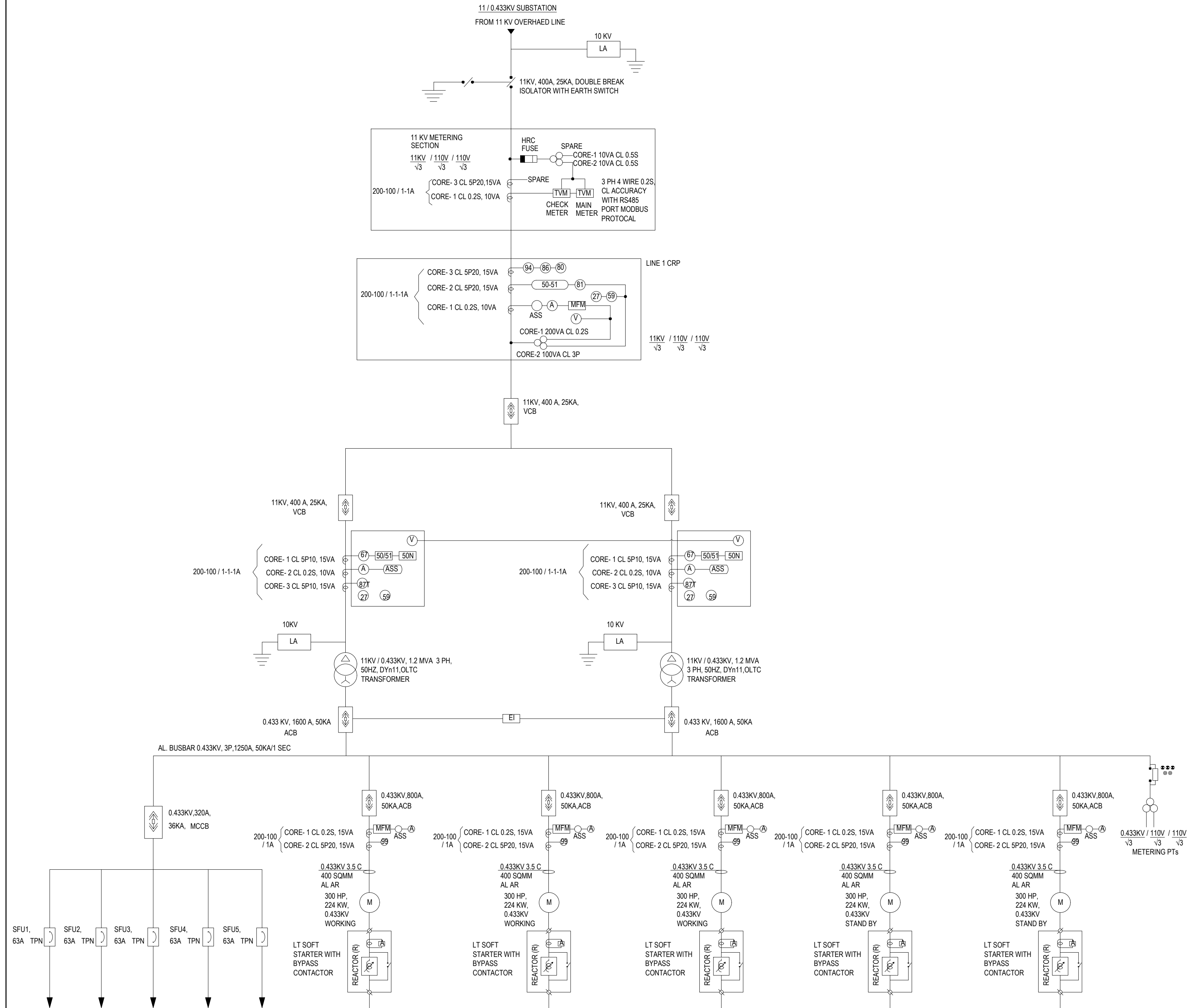
Drawing Title

Single Line Diagram of
Electrical Substation for Haltara

 Executive Engineer KNNL, Kalasa Project Division, Khanapur.	 Superintending Engineer, KNNL, MLBCC Circle, Naviluteertha.
--	--

Chief Engineer,
KNNL, Malaprabha Project Zone,
Dharwad.





Legend			
	Lightning Arrester		Voltmeter
	Electrically Cum Manually Operated Isolator With Earth Switch		Multi Function Meter
	Electrically Cum Manually Operated Isolator Without Earth Switch		Ammeter
	Current Transformer		Ammeter Selector Switch
	Potential Transformer		Miniature Circuit Breaker
	Hrc Fuse		Trivector Meter
	Vaccum Circuit Breaker		Moulded Case Circuit Breaker
	Power Transformer		
	Motor		
	Distance Relay		
	Differential Protective Relay		
	Idmt O/C, Inst. Short Circuit Relay		

Notes :
1. All dimensions are in millimeters and reduced levels are in meters.
2. Do not scale the drawing. Written dimensions only shall be followed



0	For Approval	15.12.2022	HSK	AR	SN	NR
Rev.	Description	Date	Drw.	Dsg.	Chk.	App.

Owner
Karnataka Neeravari Nigam Limited (KNNL)
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Ph.+91.80.40914714 / 40914961
info@eitech.in • www.eitech.in

Project Title
Kalasa Nala Diversion Scheme (Lift Scheme)

Sub Title
Kalasa, Haltara & Surla Lift

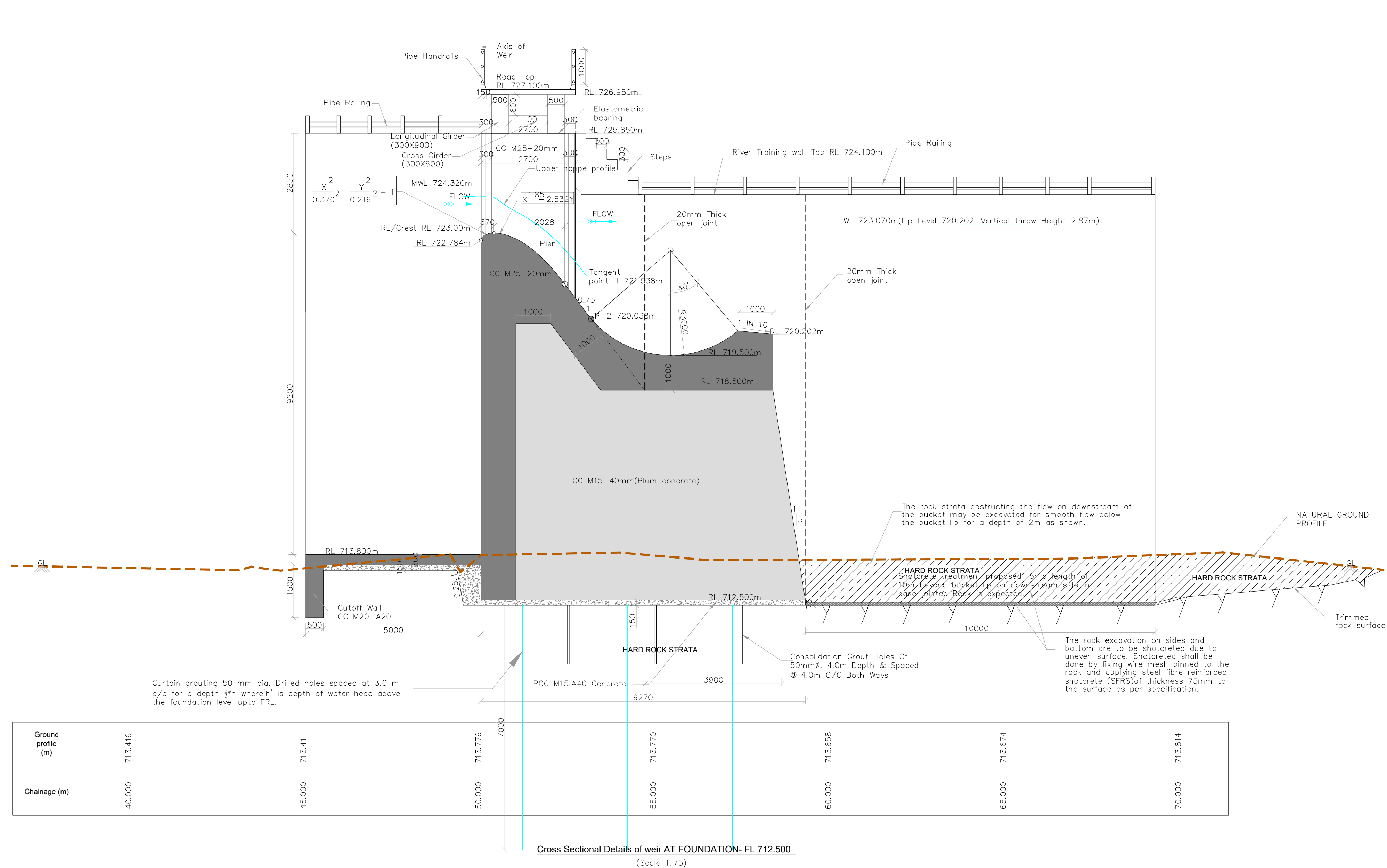
Drawing Title
Single Line Diagram of 11 Kv/0.433 Kv Electrical Substation

Date 15.12.2022	Drw. HSK	Dsg. AR	Chk. SN	App. NR	Scale As Shown	Drawing Status For Approval
Project No. 1376X	Drawing No. EIT-1376X-WRE-EL-SLD-A072				Sheet No. 01 of 01	Rev. 0

Executive Engineer
KNNL, Kalasa Project Division,
Khanapur.

Superintending Engineer,
KNNL, MLBCC Circle,
Naviluteertha.

Chief Engineer,
KNNL, Malaprabha Project Zone,
Dharwad.



NOTES :-

1. All dimensions are in millimeters except levels which are in meters, Unless otherwise mentioned.
2. Do not scale the drawing. Follow written dimensions only.

Executive Engineer
KNNL, Kalasa Project Division Khanapur

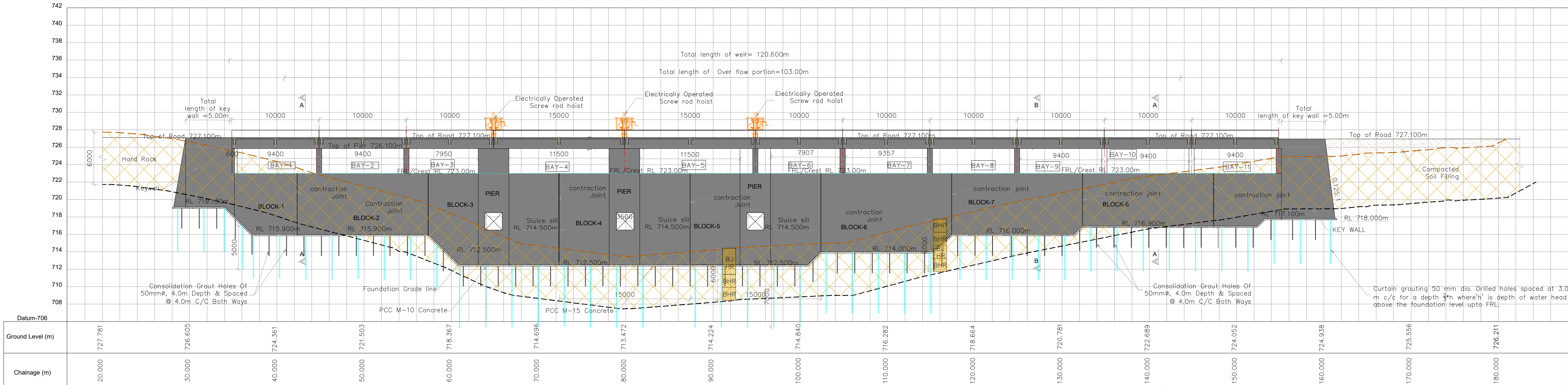
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Rev.	Description	Date	Drw.	Dsg.	Chk.	App.

Owner **Karnataka Neeravari Nigam Limited (KNNL)**
(A Govt. of Karnataka undertaking)
Bangalore - 560 001, India.
www.knnlindia.com

Consultant **E I Technologies Private Limited**
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Bangalore-560 041, India.
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Project Title							
Kalasa Nala Diversion Scheme (Lift Scheme)							
Sub Title							
Kalasa Nala Diversion Dam							
Drawing Title							
Cross Sectional Details of Weir							
Date 22.11.2022	Drw. CSH	Dsg. KD	Chk. SN	App. NR	Scale NTS	Drawing Status For Approval	
Project No. 1376X	Drawing No. EIT-1376X-WRE-KN-STR-A012					Sheet No. 02 of 07	Rev. 0

 Executive Engineer KNNL, Kalasa Project Division, Khanapur.	 Superintendent Engineer, KNNL, MLBC Circle, Navilteertho.
 Chief Engineer, KNNL, Malaprabha Project Zone, Dhargwad.	



Longitudinal Section of Kalasa Diversion Weir
(Scale 1:250)

- NOTES :-**
- All dimensions are in millimeters and levels are in meters, unless otherwise mentioned.
 - Do not scale the drawing. Follow written dimensions only.
 - Foundation bed for weir shall be prepared by removing all loose materials by wedging/chiselling.
 - Different grades of concrete shall be placed simultaneously avoiding line of separation.
 - Surface reinforcement shall be provided on U/S and D/S face of the weir.
 - High yield strength deformable base(HYSD) bars of grade Fe500 shall be used for reinforcement.
 - Curtain grout holes shall be of $\phi 45$ mm at 3000 mm C/C vertical or inclined upto 10° approx. Depth of curtain grout holes from the foundation level shall be $(2H/3)+8.0m$, (where H is depth from FRL to the Foundation level.)
 - Foundation drainage holes shall be of $\phi 75$ mm at 3000 mm C/C.
Depth of the drainage holes foundation level shall be $H/2$, (where H is depth from FRL to the foundation level.)
 - Grade of concrete to be used is as under:
 - Body wall surface concrete — M25 with 20 mm & downsize
 - Body wall inner surface concrete — M15 with 40 mm & downsize.
 - Deck slab bridge — M25 with 40 mm & downsize.
 - Piers — M25 with 20 mm & downsize.
 - Gallery wall — M20 with 40 mm & downsize.
 - Key wall — M15 with 40 mm & downsize.
 - Training wal — M15 with 40 mm & downsize.
 - Stilling basin (Top) — M25 with 40 mm & down size
 - Stilling basin (Bottom) — M15 with 40 mm & down size.

Executive Engineer
KNNL, Kalasa Project Division Khanapur

0	For Approval	22.11.2022	CTR	KD	SN	NR
Rev.	Description	Date	Drw.	Dsg.	Chk.	App.

Owner
Karnataka Neeravari Nigam Limited (KNNL)
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Bangalore - 560 001, India.
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Bangalore-560 041, India.
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Project Title
**Kalasa Nala Diversion Scheme
(Lift Scheme)**

Sub Title
Kalasa Nala Diversion Dam

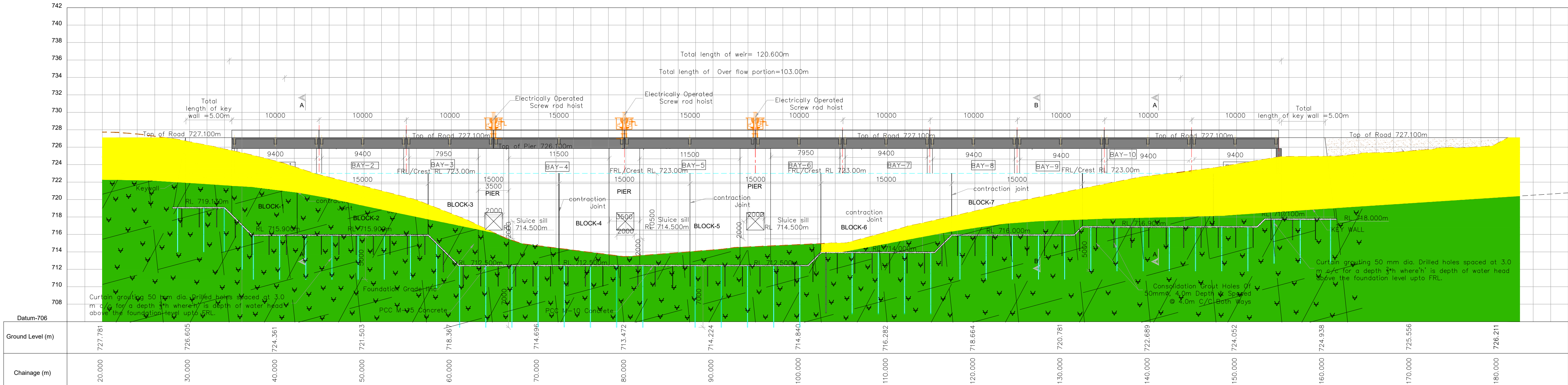
Drawing Title
**L-Section of kalasa Diversion
Dam Showing Bore Hole Details**

Date	Drw.	Dsg.	Chk.	App.	Scale	Drawing Status	
14.12.2022	CSH	KD	SN	NR	NTS	For Approval	
Project No.	Drawing No.					Sheet No.	Rev.
1376X	EIT-1376X-WRE-KN-BH-A013					01 of 1	0

Executive Engineer
KNNL, Kalasa Project Division,
Khanapur.

Superintending Engineer,
KNNL, MLBC Circle,
Noluvanteetha.

Chief Engineer,
KNNL, Malaprabha Project Zone,
Dharwad.



Longitudinal Section of Kalasa Diversion Weir
(Scale 1:250)

NOTES :-

- All dimensions are in millimeters and levels are in meters, unless otherwise mentioned.
- Do not scale the drawing. Follow written dimensions only.
- Foundation bed for weir shall be prepared by removing all loose materials by wedging/chiselling.
- Different grades of concrete shall be placed simultaneously avoiding line of separation.
- Surface reinforcement shall be provided on U/S and D/S face of the weir.
- High yield strength deformable base (HYSD) bars of grade Fe500 shall be used for reinforcement.
- Curtain grout holes shall be of $\phi 45$ mm at 3000 mm C/C vertical or inclined upto 10° approx. Depth of curtain grout holes from the foundation level shall be $(2H/3)+8.0$ m, (where H is depth from FRL to the Foundation level.)
- Foundation drainage holes shall be of $\phi 75$ mm at 3000 mm C/C.
Depth of the drainage holes foundation level shall be $H/2$, (where H is depth from FRL to the foundation level.)
- Grade of concrete to be used is as under:
 - Body wall surface concrete — M25 with 20 mm & downsize
 - Body wall inner surface concrete — M15 with 40 mm & downsize.
 - Deck slab bridge — M25 with 40 mm & downsize.
 - Piers — M25 with 20 mm & downsize.
 - Gallery wall — M20 with 40 mm & downsize.
 - Key wall — M15 with 40 mm & downsize.
 - Training wall — M15 with 40 mm & downsize.
 - Stilling basin (Top) — M25 with 40 mm & down size
 - Stilling basin (Bottom) — M15 with 40 mm & down size.

Executive Engineer
KNNL, Kalasa Project Division Khanapur

0	For Approval	22.11.2022	CTR	KD	SN	NR
Rev.	Description	Date	Drw.	Dsg.	Chk.	App.

Owner
Karnataka Neeravari Nigam Limited (KNNL)
(A Govt. of Karnataka undertaking)
Bangalore - 560 001, India.
www.knnlindia.com

Consultant
E I Technologies Private Limited
(ISO 9001 : 2015 Certified)
1149, 26th Main, Jayanagar 4th 'T' Block,
Bangalore-560 041, India.
Ph.+91.80.40914714 / 40914961
info@eitech.in • www.eitech.in

Project Title
**Kalasa Nala Diversion Scheme
(Lift Scheme)**

Sub Title
Kalasa Nala Diversion Dam

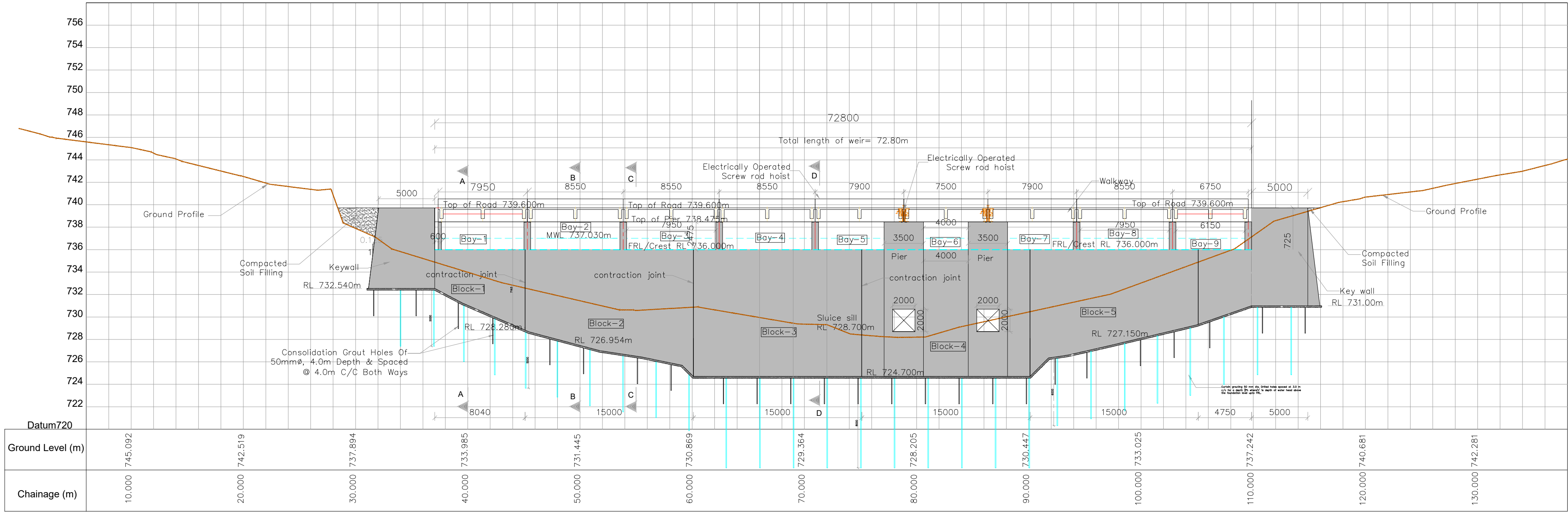
Drawing Title
**L-Section of Kalasa Diversion Dam
Showing Bore Hole Details**

Date	Drw.	Dsg.	Chk.	App.	Scale	Drawing Status
14.12.2022	CSH	KD	SN	NR	NTS	For Approval
Project No.	Drawing No.	Sheet No.	Rev.			
1376X	EIT-1376X-WRE-KN-GO-A014	01 of 01	0			

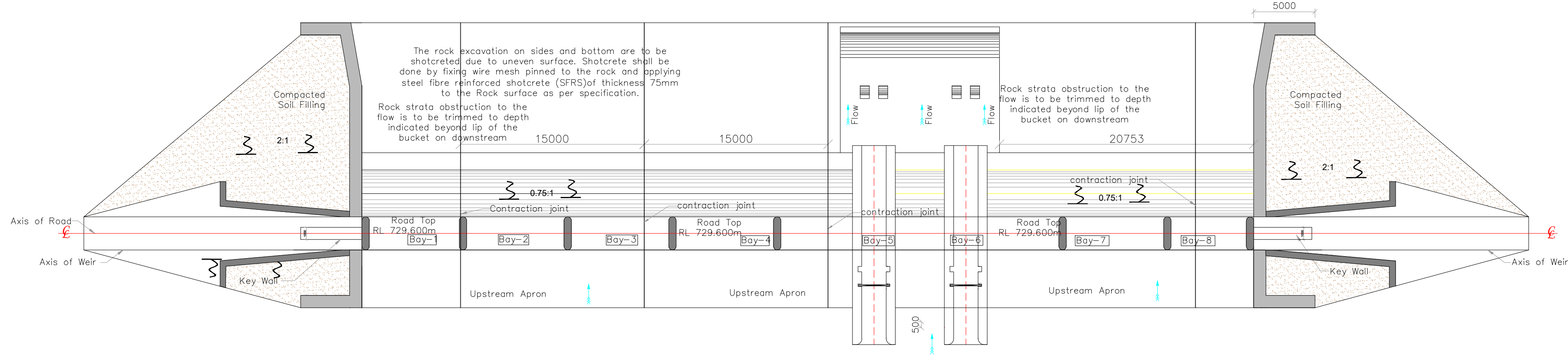
Executive Engineer
KNNL, Kalasa Project Division,
Khanapur.

Superintending Engineer,
KNNL, MLBC Circle,
Navalur.

Chief Engineer,
KNNL, Malaprabha Project Zone,
Dharwad.



Longitudinal Section of Haltara Diversion Weir
(Scale 1:250)



Plan of Diversion Weir
(Scale 1:250)

- NOTES :-
1. All dimensions are in millimeters except levels which are in meters, Unless otherwise mentioned.
 2. Do not scale the drawing. Follow written dimensions only.

Executive Engineer
KNNL, Kalasa Project Division Khanapur

0	For Approval	14.12.2022	CSH	KD	SN	NR
Rev.	Description	Date	Drw.	Dsg.	Chk.	App.

Owner
Karnataka Neeravari Nigam Limited (KNNL)
(A Govt. of Karnataka undertaking)
Bangalore - 560 001, India.
www.knnlindia.com

Consultant
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1149, 26th Main, Jayanagar 4th 'T' Block,
Bangalore-560 041, India.
Ph.+91.80.40914714 / 40914961
info@eitech.in • www.eitech.in

Project Title
**Kalasa Nala Diversion Scheme
(Lift Scheme)**

Sub Title
Haltara Lift

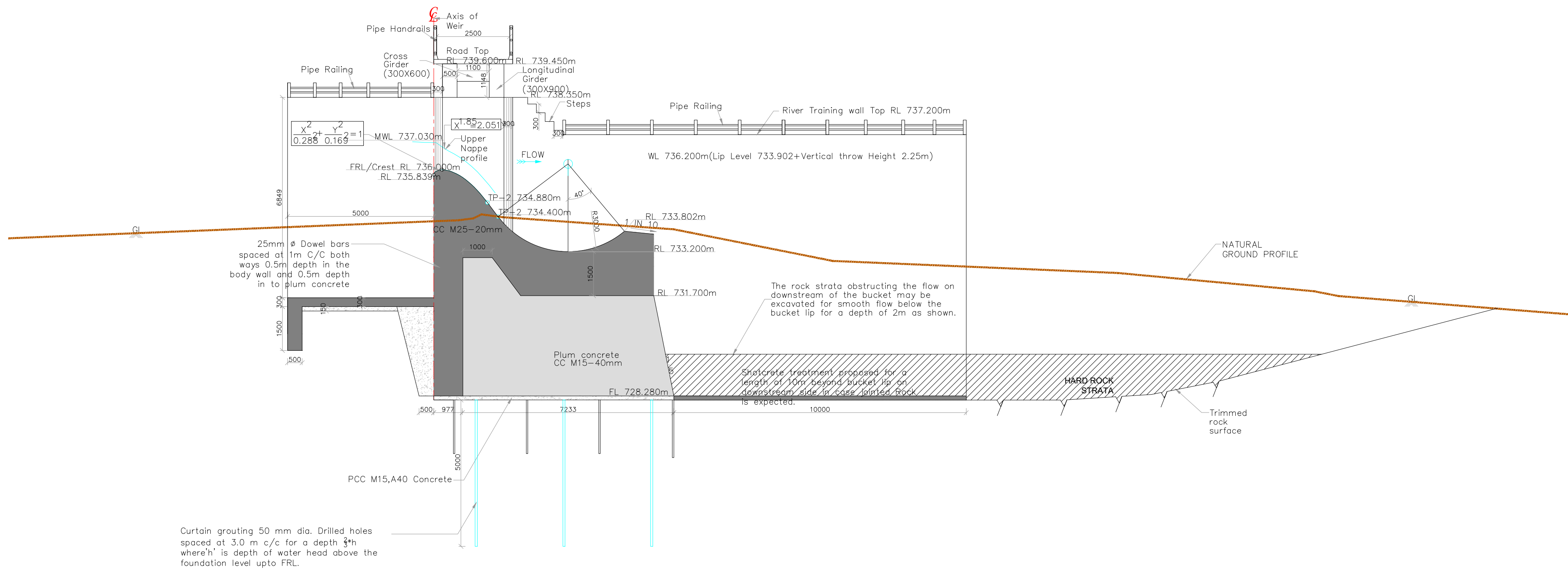
Drawing Title
**General arrangement Drawing
of Haltara Dam**

Date	Drw.	Dsg.	Chk.	App.	Scale	Drawing Status
14.12.2022	CSH	KD	SN	NR	As Shown	For Approval
Project No.	Drawing No.	Sheet No.	Rev.			
1376X	EIT-1376X-WRE-HN-STR-A020	01 of 06	0			

Executive Engineer
KNNL, Kalasa Project Division,
Khanapur.

Superintending Engineer,
KNNL, MLBC Circle,
Naviluteertha.

Chief Engineer,
KNNL, Malaprabha Project Zone,
Dharwad.



Ground profile (m)	733.784	734.054	734.852	734.208	733.624	731.410	732.631	730.909	730.440
Chainage (m)	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000

Cross Sectional Details of weir at CH:728.280
(Scale 1:100)

- NOTES:-
1. All dimensions are in millimeters except levels which are in meters, Unless otherwise mentioned.
 2. Do not scale the drawing. Follow written dimensions only.

Executive Engineer
KNNL, Kalasa Project Division Khanapur

0	For Approval	09.08.2022	CSH	KD	SN	NR
Rev.	Description	Date	Drw.	Dsg.	Chk.	App.

Owner
Karnataka Neeravari Nigam Limited (KNNL)
(A Govt. of Karnataka undertaking)
Bangalore - 560 001, India.
www.knnlindia.com

Consultant
E I Technologies Private Limited
(ISO 9001 : 2015 Certified)
1149, 26th Main, Jayanagar 4th 'T' Block,
Bangalore-560 041, India.
Ph.+91.80.40914714 / 40914961
info@eitech.in • www.eitech.in

Project Title
**Kalasa Nala Diversion Scheme
(Lift Scheme)**

Sub Title
Haltara Lift

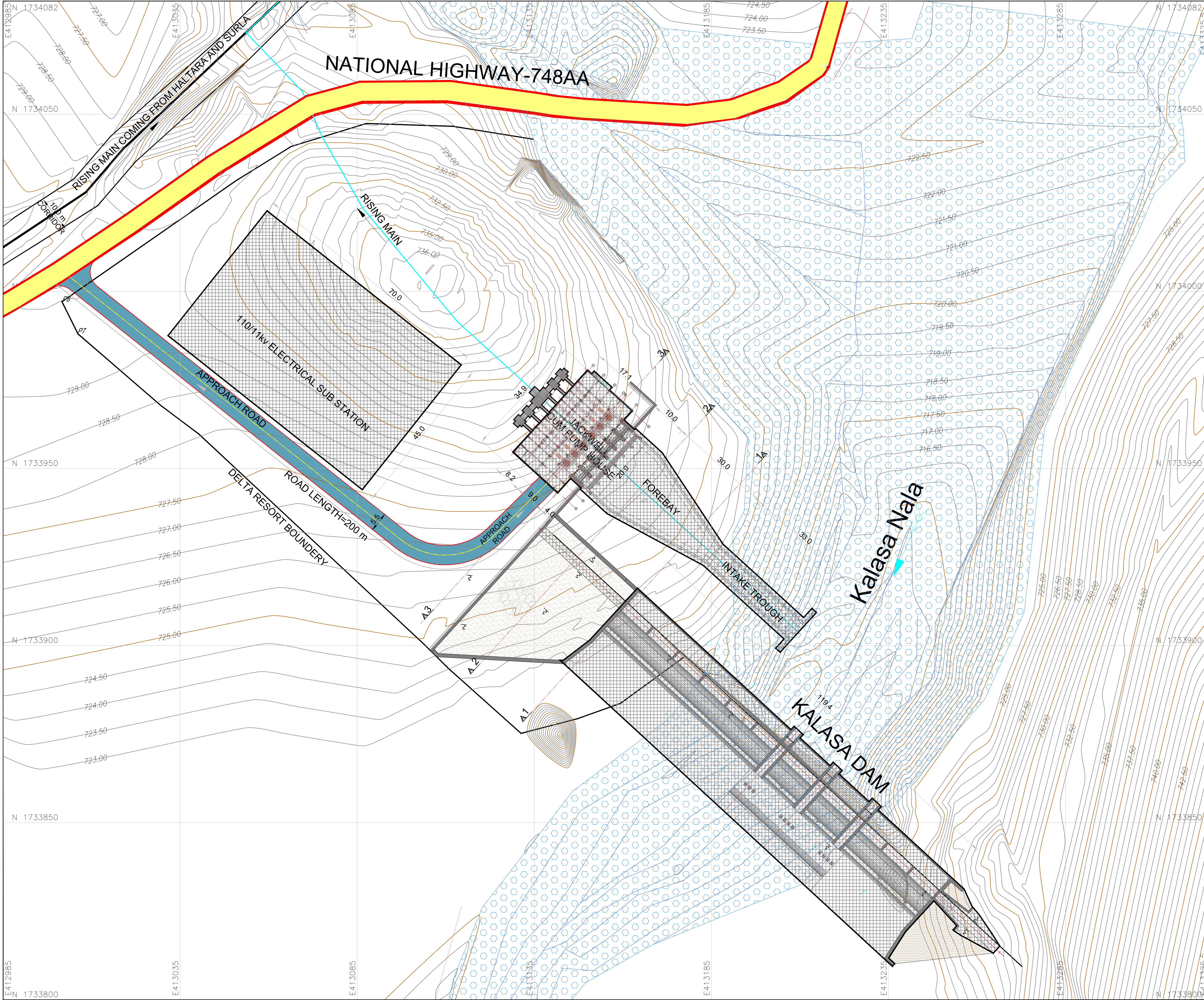
Drawing Title
Cross sectional Details of Dam

Date 14.12.2022	Drw. CSH	Dsg. KD	Chk. SN	App. NR	Scale As Shown	Drawing Status For Approval
Project No. 1376X	Drawing No. EIT-1376X-WRE-HN-STR-A020				Sheet No. 02 of 06	Rev. 0

Executive Engineer
KNNL, Kalasa Project Division,
Khanapur.

Superintending Engineer,
KNNL, MLBCC Circle,
Naviluteertha.

Chief Engineer,
KNNL, Malaprabha Project Zone,
Dharwad.



- ### NOTES
- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS.
 - DO NOT MEASURE THE DRAWING, FOLLOW THE DIMENSION MENTIONED.
 - ALL STRUCTURAL DRAWINGS MUST READ IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWING.
 - GRADE OF CONCRETE FOR RCC WORKS SHALL BE M30
 - COVER SHALL BE PROVIDED AS BELOW.
 - FOOTING – 75mm
 - COLUMN – 40mm
 - SLAB – 25mm
 - BEAM – 25mm
 - RETAINING WALL ON EARTH SIDE – 75mm, ON WATER SIDE – 50mm
 - ALL PCC SHALL BE MINIMUM 150mm THK. OF GRADE M15 UNLESS OTHERWISE SPECIFIED.
 - DEVELOPMENT LENGTH SHALL BE 50 TIMES THE BAR DIAMETER
 - CONSTRUCTION JOINTS SHALL BE PROVIDED AT EVERY 2m HEIGHT FOR THE CONCRETE WALLS BELOW THE GROUND LEVEL. APPROVED PVC WATER STOPS OF 230mm WIDE AND 8mm THICK SHALL BE USED.
 - INSERT PLATES IF REQD. TO BE FOLLOWED ACCORDING TO SERVICE DRAWING.
 - ANY DISCREPANCY IN THE DWG. SHOULD BROUGHT TO THE NOTICE OF THE CONSULTANTS PRIOR TO EXECUTION.
 - BRICK WALLS–ALL EXTERNAL WALLS IN BUILDINGS SHALL BE 230mm THICK. KILN BURNT BRICK MASONRY IN CM 1:6 AND INTERNAL WALLS SHALL BE 115 mm THICK WITH CM 1:4.
 - WATER PROOFING TREATMENT–SCREED CONCRETE MIXED WITH WATER PROOFING COMPOUND OVER A CEMENTIOUS, POLYMER MODIFIED, BITUMINOUS, ACRYLIC LIQUID APPLIED MEMBRANES WITH PROPER DRAINAGE SLOPE.
 - FLOOR FINISH:–
 - PUMP HOUSE AND SERVICE BAY–40 mm THICK HEAVY DUTY CEMENT CONCRETE (M25) FLOOR WITH NON–METALLIC HARDENER AND MATCHING SKIRTING.
 - ELECTRICAL SWITCH GEAR, BATTERY/ PLC ROOM–POLISHED SHAHABAD/TANDOR KOTA STONE FLOORING 25mm TO 30mm THICK. ON TOP OF SLAB ON A BED OF 1:4 CEMENT MORTAR (20 mm THICK) SHALL BE PROVIDED.
 - PLASTERING:–

EXTERIOR WALL: 20mm THICK CEMENT PLASTER IN CM 1:3 IN TWO COATS. FIRST COAT SHALL BE 14mm THICK AND SECOND COAT 6mm THICK WITH WATER PROOFING COMPOUND

INTERIOR WALL: 20mm THICK IN CM 1:3.

CEILING: 6mm THICK IN CM 1:3.

PAINTING/WALL FINISH:–

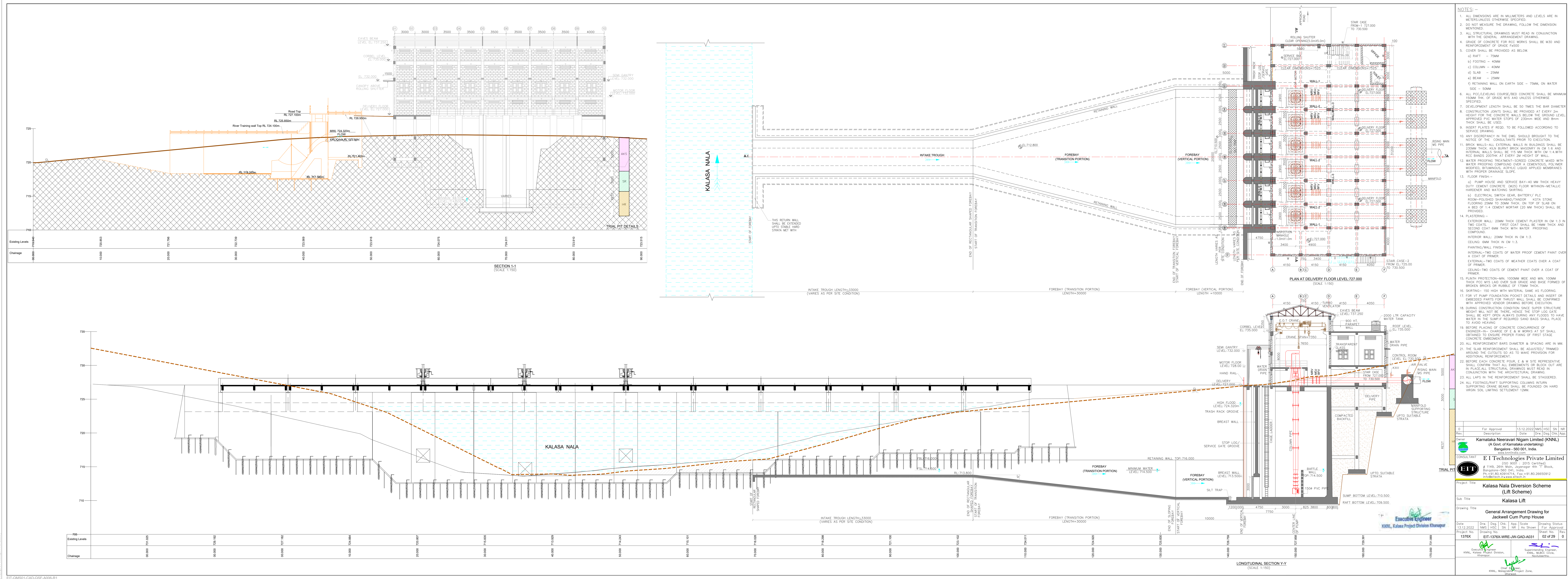
INTERNAL–TWO COATS OF WATER PROOF CEMENT PAINT OVER COAT OF PRIMER

EXTERNAL–TWO COATS OF WEATHER COATS OVER A COAT OF PRIMER.

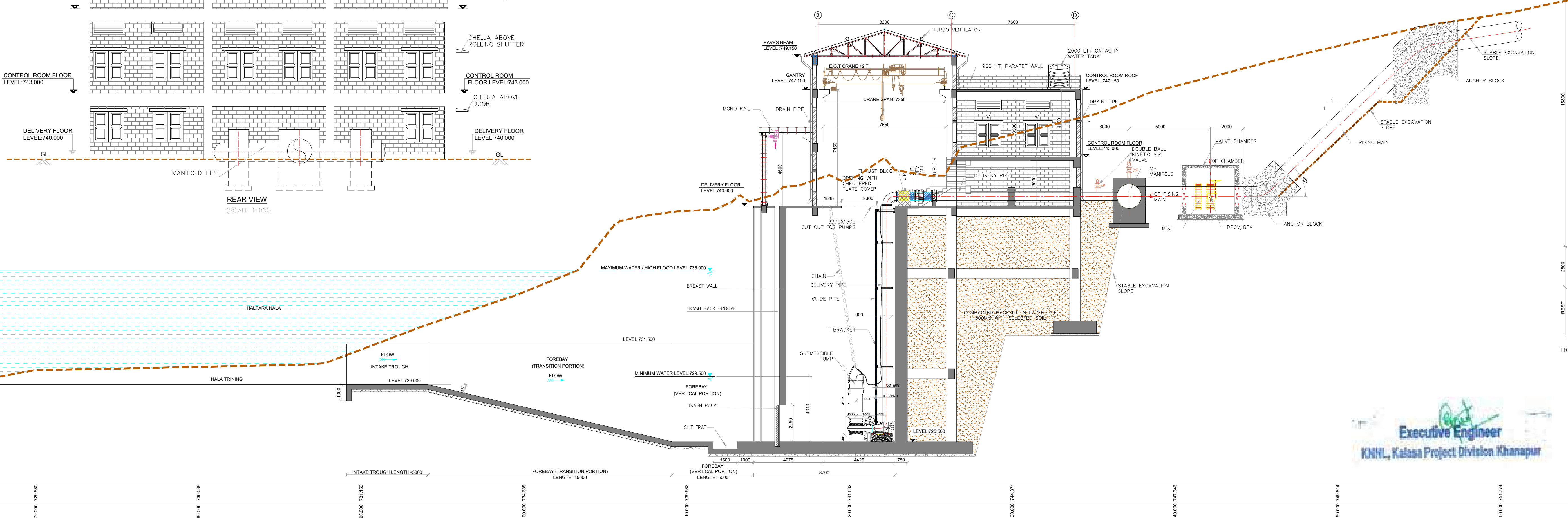
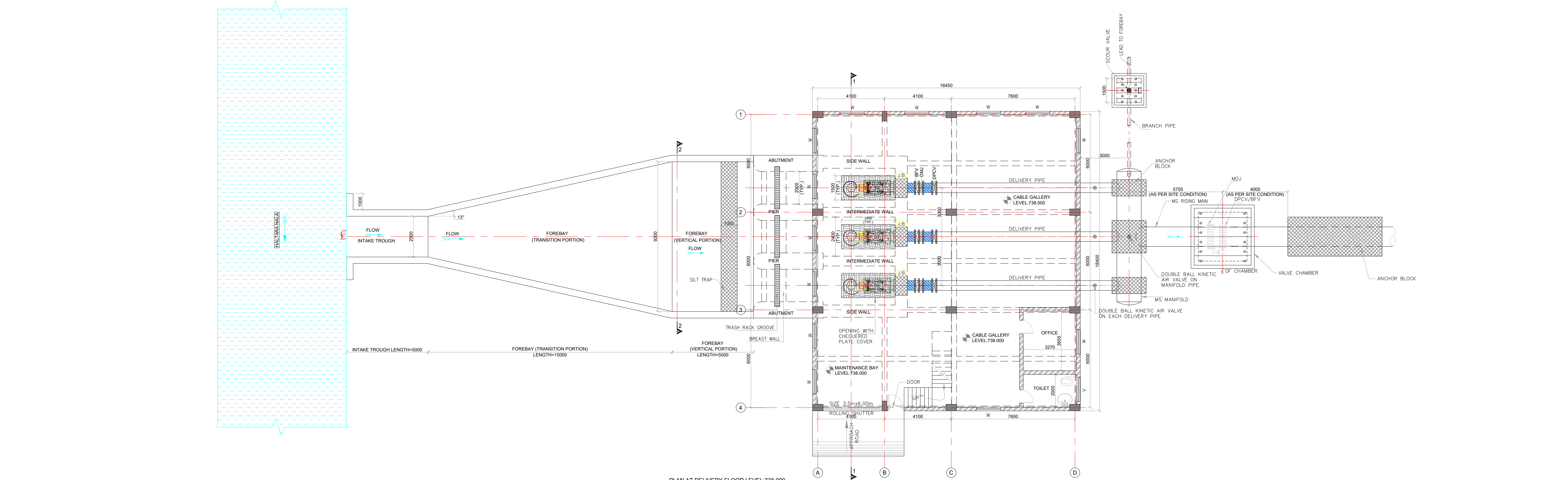
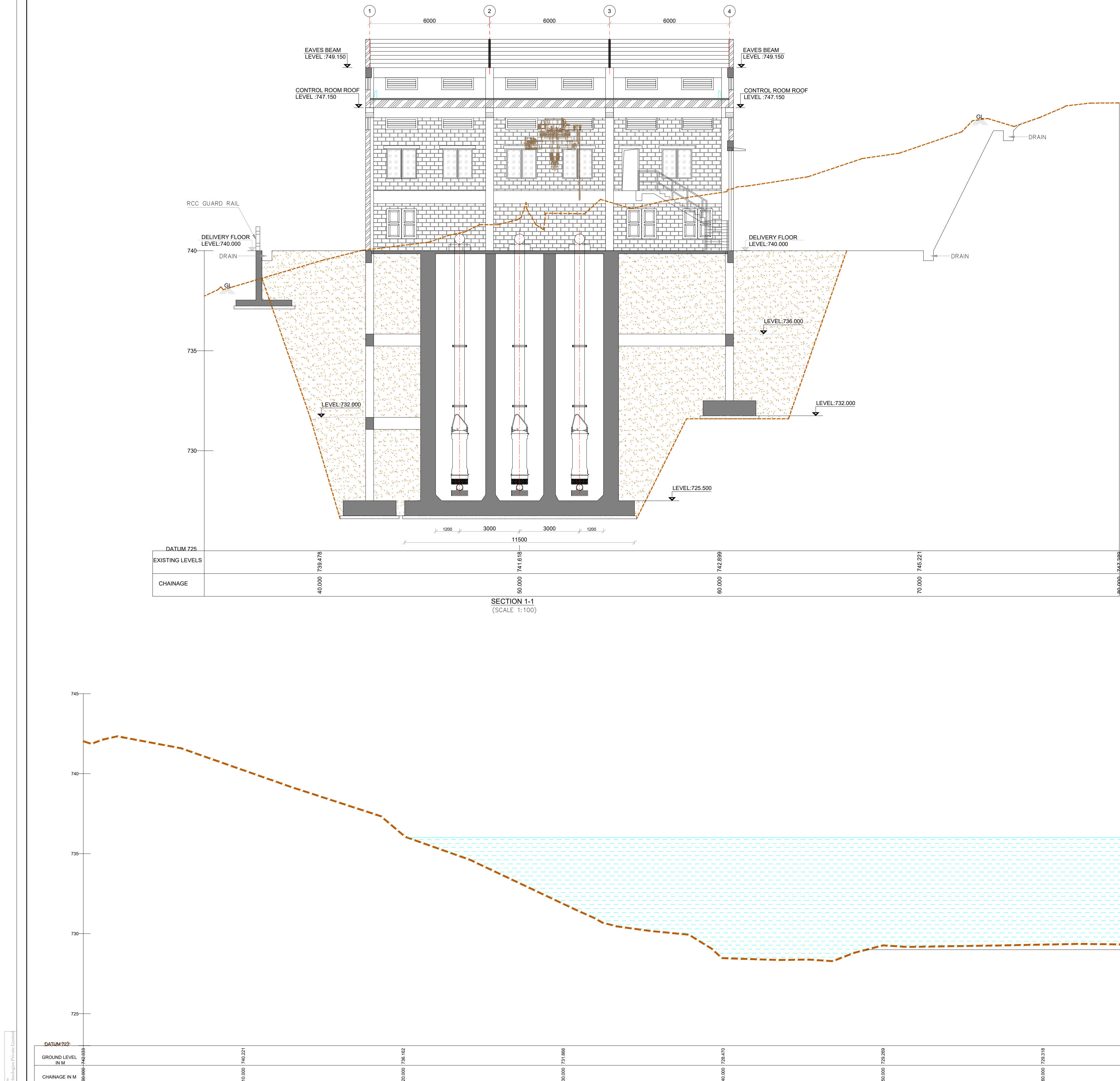
CEILING–TWO COATS OF CEMENT PAINT OVER A COAT OF PRIMER.
 - PLINTH PROTECTION–MIN. 1000mm WIDE AND MIN. 100mm THICK PCC M15 LAID OVER SUB GRADE AND BASE FORMED OF BROKEN BRICKS OR RUBBLE OF 175mm THICK.
 - SKIRTING– 150 HIGH WITH MATERIAL SAME AS FLOORING.
 - FOR VT PUMP FOUNDATION POCKET DETAILS AND INSERT OR EMBEDDED PARTS FOR THRUST WALL SHALL BE CONFIRMED WITH APPROVED VENDOR DRAWING BEFORE EXECUTION.
 - DURING CONSTRUCTION CONDITION SINCE SUPER STRUCTURE WEIGHT WILL NOT BE THERE, HENCE THE STOP LOG GATE SHALL BE KEPT OPEN ALWAYS DURING ANY FLOODS TO HAVE WATER IN THE SUMP.
 - BEFORE PLACING OF CONCRETE CONCURRENCE OF ENGINEER-IN-CHARGE OF E & M WORKS AT SIT SHALL OBTAINED TO ENSURE PROPER FIXING OF FIRST STAGE CONCRETE EMBEDMENT.
 - ALL REINFORCEMENT BARS DIAMETER & SPACING ARE IN mm.
 - THE SLAB REINFORCEMENT SHALL BE ADJUSTED/ TRIMMED AROUND THE CUTOUTS SO AS TO MAKE PROVISION FOR ADDITIONAL REINFORCEMENT.
 - BEFORE EACH CONCRETE POUR, E & M SITE REPRESENTATIVE SHALL CONFIRM THAT ALL EMBEDMENTS OR BLOCK OUT ARE IN PLACE. ALL STRUCTURAL DRAWINGS MUST READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWING.
 - ALL LAPS IN THE REINFORCEMENT SHALL BE STAGGERED.

Executive Engineer
KNNL, Kalasa Project Division Khanapur

0	For Approval	13.12.2022	NMS	HSC	SN	NR
Rev.	Description	Date	Drw.	Dsg.	Chk.	App.
Owner	Karnataka Neeravari Nigam Limited (KNNL) (A Govt. of Karnataka undertaking) Bangalore - 560 001, India. www.knnlindia.com					
CONSULTANT	E I Technologies Private Limited (ISO 9001 : 2015 Certified) # 1149, 26th Main, Jayanagar 4th 'F' Block, Bangalore-560 041, India. Ph:+91.80.40914714, Fax: +91.80.26650912 info@eitech.in, www.eitech.in					
Project Title						
Kalasa Nala Diversion Scheme (Lift Scheme)						
Sub Title						
Kalasa Lift						
Drawing Title						
General Arrangement Drawing for Jackwell Cum Pump House						
Date	Drw.	Dsg.	Chk.	App.	Scale	Drawing Status
13.12.2022	NMS	HSC	SN	NR	As Shown	For Approval
Project No.	Drawing No.				Sheet No.	Rev.
1376X	EIT-1376X-WRE-JW-GAD-A031				01 of 29	0
Executive Engineer, KNNL, Kalasa Project Division, Khanapur.				Superintending Engineer, Circle, KNNL, MLBC Circle, Navaluturtha.		
Chief Engineer, KNNL, Malaprabha Project Zone, Pharwad.						



EIT-QMS01-CAD-QSF-A006-R1



NOTES:-

- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- DO NOT MEASURE THE DRAWING, FOLLOW THE DIMENSION MENTIONED.
- ALL STRUCTURAL DRAWINGS MUST BE READ IN CONJUNCTION WITH THE GENERAL ARRANGEMENT DRAWING.
- GRADE OF CONCRETE FOR RCC WORKS SHALL BE M30 AND REINFORCEMENT OF GRADE F4500
- COVER SHALL BE PROVIDED AS BELOW.
a) RAFT - 75MM
b) FOOTING - 40MM
c) COLUMN - 40MM
d) SLAB - 25MM
e) BEAM - 25MM
f) RETAINING WALL ON EARTH SIDE - 75MM, ON WATER SIDE - 50MM
- ALL RCC/LEVELING COURSE/SED CONCRETE SHALL BE MINIMUM 150MM THK. OF GRADE M15 AND UNLESS OTHERWISE SPECIFIED DEVELOPMENT LENGTH SHALL BE 50 TIMES THE BAR DIAMETER
- CONSTRUCTION JOINTS SHALL BE PROVIDED AT EVERY 2m HEIGHT FOR THE CONCRETE WALLS BELOW THE GROUND LEVEL. APPROVED PVC WATER STOPS OF 200mm WIDE AND 8mm THICK SHALL BE USED.
- INSERT PLATES IF REQD. TO BE FOLLOWED ACCORDING TO SERVICE DRAWING.
- ANY DISCREPANCY IN THE DWG. SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT PRIOR TO EXECUTION.
- BLOCK WALLS-ALL EXTERNAL WALLS IN BUILDINGS SHALL BE 230MM THICK. KILN BURNED BRICK MASONRY IN CM 1:6 AND INTERNAL WALLS SHALL BE 115 MM THICK WITH CM 1:6 WITH RCC BANDS 200THK AT EVERY 2m HEIGHT OF WALL.
- WATER PROOFING TREATMENT-SCREED CONCRETE MIXED WITH WATER PROOFING COMPOUND OVER A CONTINUOUS, POLYMER MODIFIED, BITUMINOUS, ACRYLIC LIQUID APPLIED MEMBRANES WITH PROPER DRAINAGE SLOPE.
- FLOOR FINISH:-
a) PUMP HOUSE AND SERVICE BAY-40 MM THICK HEAVY DUTY CEMENT CONCRETE (M25) FLOOR WITHIN-METALLIC HARDENER AND MATCHING SKIRTING.
b) ELECTRICAL SWITCH GEAR, BATTERY/ PLC ROOM-POLISHED SHAHABAD/TANDOR KOTA STONE FLOORING 25MM TO 30MM THICK ON TOP OF SLAB ON A BED OF 1:4 CEMENT MORTAR (20 MM THICK) SHALL BE PROVIDED.
- PLASTERING:-
EXTERIOR WALL: 20MM THICK CEMENT PLASTER IN CM 1:3 IN TWO COATS. FIRST COAT SHALL BE 14MM THICK AND SECOND COAT 6MM THICK WITH WATER PROOFING COMPOUND.
INTERIOR WALL: 20MM THICK IN CM 1:3.
CEILING: 6MM THICK IN CM 1:3.
PAINTING/WALL FINISH:-
INTERNAL-TWO COATS OF WATER PROOF CEMENT PAINT OVER COAT OF PRIMER.
EXTERNAL-TWO COATS OF WEATHER COATS OVER A COAT OF PRIMER.
- PLINTH PROTECTION-MIN. 1000MM WIDE AND MIN. 100MM THICK RCC MTS LAID OVER SUB GRADE AND BASE FORMED OF BROKEN BRICKS OR RUBBLE OF 150MM THICK.
- SKIRTING- 150 HIGH WITH MATERIAL SAME AS FLOORING.
- FOR VT PUMP FOUNDATION POCKET DETAILS AND INSERT OR EMBEDDED PARTS FOR THIRST WALL SHALL BE CONFIRMED WITH APPROVED VENDOR DRAWING BEFORE EXECUTION.
- DURING CONSTRUCTION CONDITION SINCE SUPER STRUCTURE WEIGHT WILL NOT BE THERE, HENCE THE STOP LOG GATE SHALL BE KEPT OPEN ALWAYS DURING ANY FLOODS TO HAVE WATER IN THE SUMP. IF REQUIRED SAND BAGS SHALL PLACE TO AVOID HEAVING.
- BEFORE PLACING OF CONCRETE CONCURRENCE OF ENGINEER-IN-CHARGE OF E & M WORKS AT ST SHALL OBTAINED TO ENSURE PROPER FIXING OF FIRST STAGE CONCRETE EMBEDMENT.
- ALL REINFORCEMENT BARS DIAMETER & SPACING ARE IN MM.
- THE SLAB REINFORCEMENT SHALL BE ADJUSTED/ TRIMMED AROUND THE CUTOUTS SO AS TO MAKE PROVISION FOR ADDITIONAL REINFORCEMENT.
- BEFORE EACH CONCRETE POUR, E & M SITE REPRESENTATIVE SHALL CONFIRM THAT ALL EMBEDMENTS OR BLOCK OUT ARE IN PLACE. ALL STRUCTURAL DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS.
- ALL LAPS IN THE REINFORCEMENT SHALL BE STAGGERED.
- ALL FOOTINGS/RAFT SUPPORTING COLUMN, INTERM SUPPORTING CRANE BEAMS SHALL BE FOUND ON HARD VIRGIN SOIL LIMITING SETTLEMENT 12MM.

LEGENDS:

1	BBV	-HORO BUTTERFLY VALVE
2	DPV	-DUAL PLATE CHECK VALVE
3	MDU	-METALLIC DISMANTLING JOINT
4	GL	-NATURAL GROUND LEVEL
5	NW	-NON RETURN VALVE
6	DP	-DISTANCE PIECE
7	JB	-JUNCTION BOX

Rev.	Description	Date	Drawn	Checked	Appr.	SN	NR
0	For Approval	13.12.2022	NMS	HSC			

Owner: **Karnataka Neeravani Nigam Limited (KNNL)**
(A Govt. of Karnataka undertaking)
Bangalore - 560 001, India.
www.knnlindia.com

CONSULTANT: **E I Technologies Private Limited**
(ISO 9001:2015 Certified)
1149, 26th Main, Jayanagar 4th T Block,
Bangalore-560 041, India.
Ph: +91 80 40914715, Fax: +91 80 26655912
info@eitech.in, www.eitech.in

Project Title: **Kalasa Nala Diversion Scheme (Lift Scheme)**

Sub Title: **Haltara Lift**

Drawing Title: **General Arrangement Drawing for Jackwell Cum Pump House**

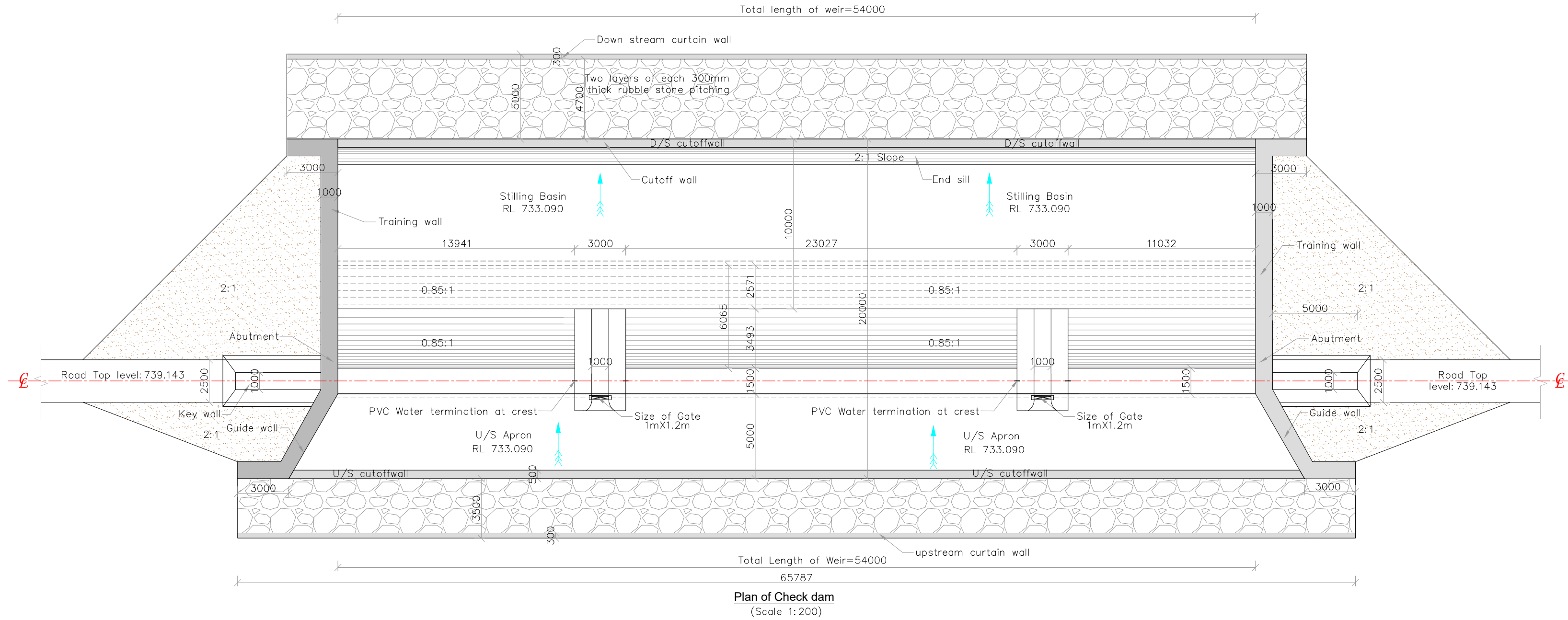
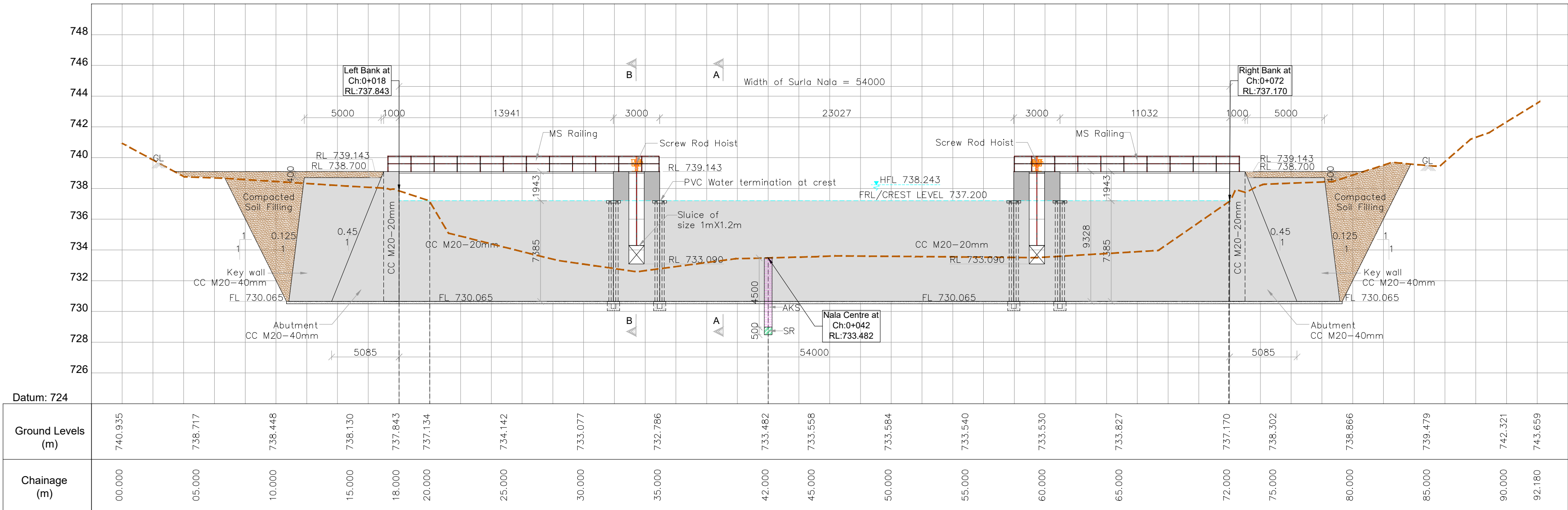
Date	Drawn	Chk.	App.	Scale	Drawing Status
13.12.2022	NMS	HSC	SN	NR	As Shown

Project No.: **1376X** Drawing No.: **EIT-1376X-WRE-JV-GAD-A032** 02 of 23 0

Executive Engineer: **KNNL, Kalasa Project Division, Khanapur**

Superintending Engineer: **KNNL, M&C Group, Nallajerla**

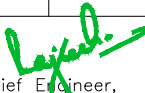
Chief Engineer: **KNNL, Maintenance Project Zone, Chitradurga**

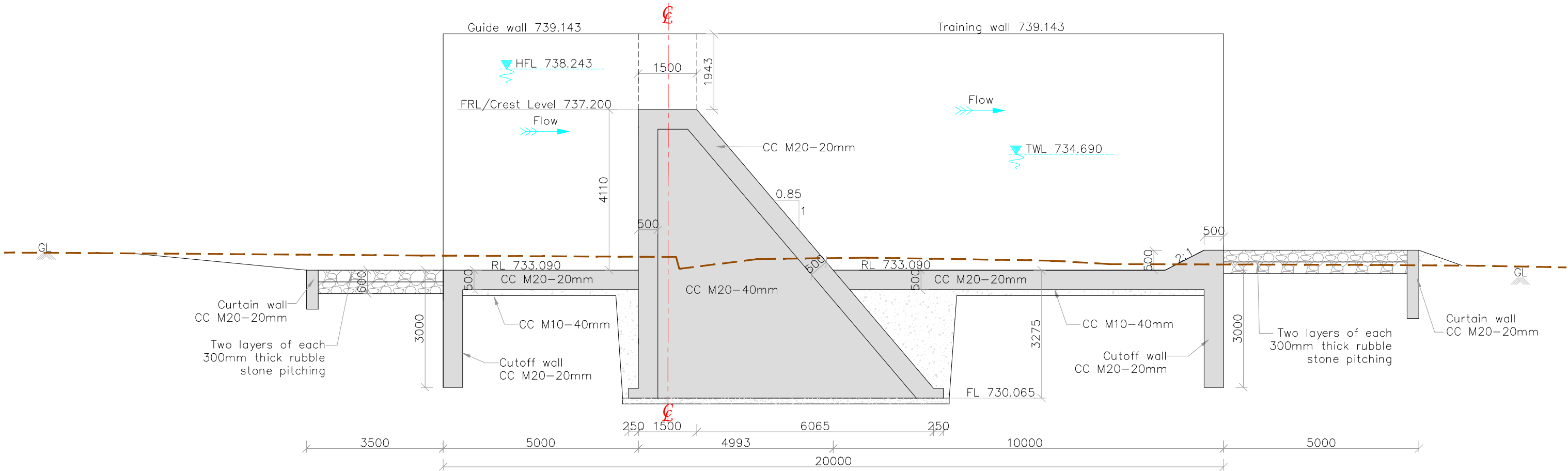


Notes

- 1) All Dimensions are in Millimetre
- 2) Do Not Scale the Drawing. Only Written Dimensions Shall be Followed.

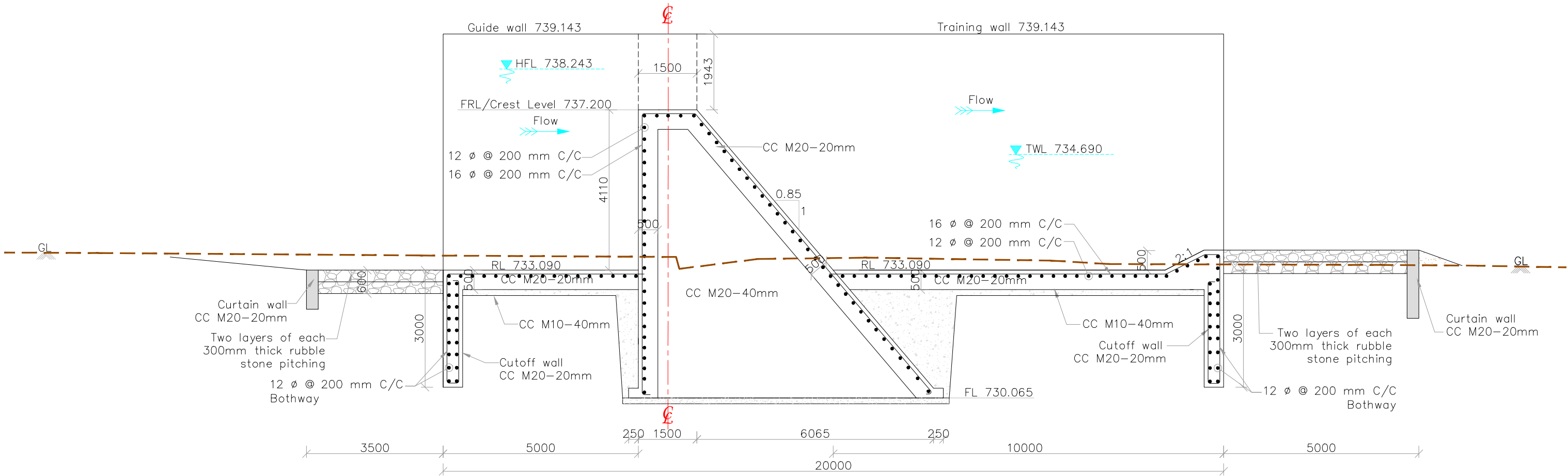


0	For Approval	22.11.2022	VT	VA	SN	NR
Rev.	Description	Date	Drw.	Dsg.	Chk.	App.
Owner	Karnataka Neeravari Nigam Limited (KNNL) (A Govt. of Karnataka undertaking) Bangalore - 560 001, India. www.knnlindia.com					
Consultant	E I Technologies Private Limited (ISO 9001 : 2015 Certified), # 1149, 26th Main, Jayanagar 4th 'T' Block, Bangalore-560 041, India. Ph. +91.80.40914714. / 40914961 info@eitech.in • www.eitech.in					
Project Title	Kalasa Nala Diversion Scheme (Lift Scheme)					
Sub Title	Kalasa, Haltara & Surla Lift					
Drawing Title	General arrangement Drawing for Surla Checkdam-1					
Date	Drw.	Dsg.	Chk.	App.	Scale	Drawing Status
22.11.2022	VT	VA	SN	NR	As Shown	For Approval
Project No.	Drawing No.				Sheet No.	Rev.
1376X	EIT-1376X-WRE-SN-STR-A039				01 of 04	0
 Executive Engineer KNNL, Kalasa Project Division, Khanapur.				 Superintending Engineer, KNNL, MLBCC Circle, Naviluteertha.		
 Chief Engineer, KNNL, Malaprabha Project Zone, Dharwad.						



Ground Levels (m)	733.541	733.508	733.471	733.429	733.385	733.364	733.241	733.224	733.162
Chainage (m)	00.000	05.000	10.000	17.000	20.000	25.000	30.000	35.000	40.000

Cross section of check dam at A-A
(Scale 1:100)



Ground Levels (m)	733.541	733.508	733.471	733.429	733.385	733.364	733.241	733.224	733.162
Chainage (m)	00.000	05.000	10.000	17.000	20.000	25.000	30.000	35.000	40.000

Cross section of check dam at A-A
(Reinforcement Details)
(Scale 1:100)

Notes

- 1) All Dimensions are in Millimetre
- 2) Do Not Scale the Drawing. Only Written Dimensions Shall be Followed.



0	For Approval	22.11.2022	VT	VA	SN	NR
Rev.	Description	Date	Drw.	Dsg.	Chk.	App.

Owner
Karnataka Neeravari Nigam Limited (KNNL)
(A Govt. of Karnataka undertaking)
Bangalore - 560 001, India.
www.knnlindia.com

Consultant
E I Technologies Private Limited
(ISO 9001 : 2015 Certified)
1149, 26th Main, Jayanagar 4th 'T' Block,
Bangalore-560 041, India.
Ph.+91.80.40914714 / 40914961
info@eitech.in • www.eitech.in

Project Title
**Kalasa Nala Diversion Scheme
(Lift Scheme)**

Sub Title
Kalasa, Haltara & Surla Lift

Drawing Title
**Cross section of Surla Checkdam-1 and
Reinforcement Details**

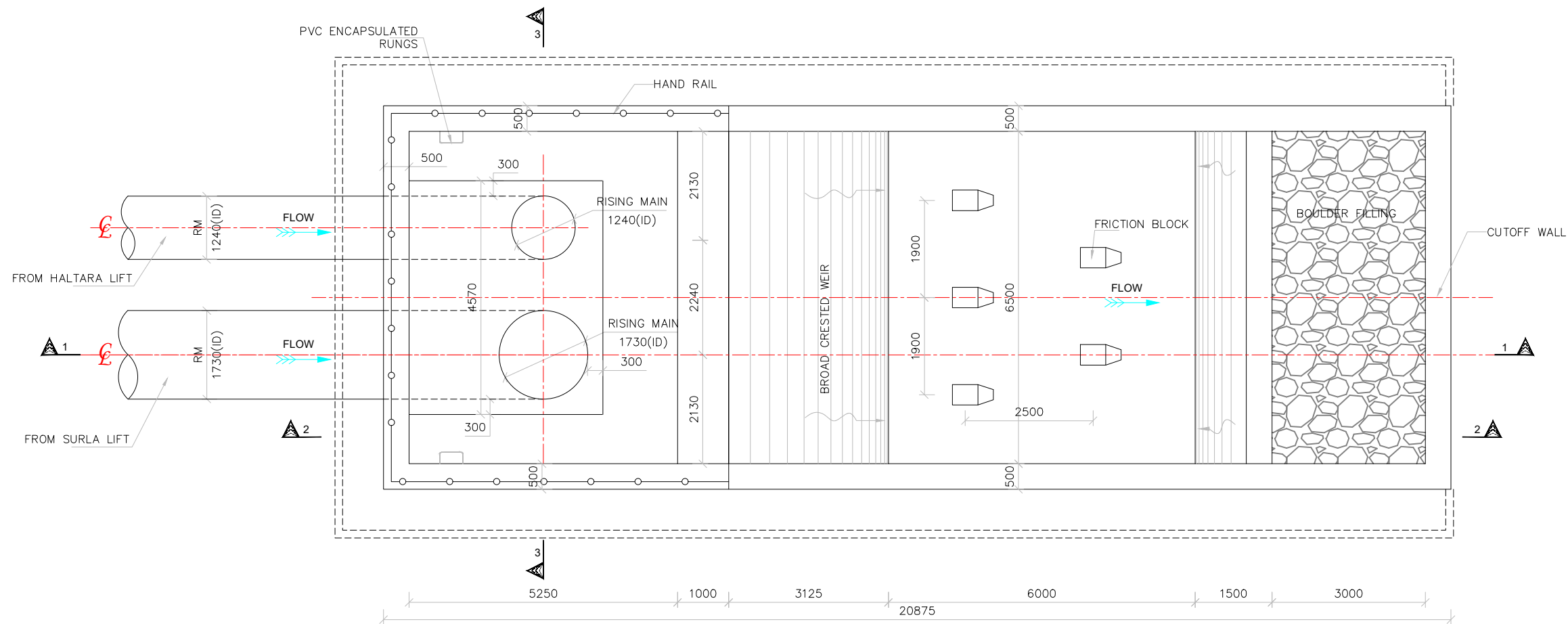
Date 22.11.2022	Drw. VT	Dsg. VA	Chk. SN	App. NR	Scale As Shown	Drawing Status For Approval
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Project No. 1376X	Drawing No. EIT-1376X-WRE-SN-STR-A039	Sheet No. 02 of 04	Rev. 0
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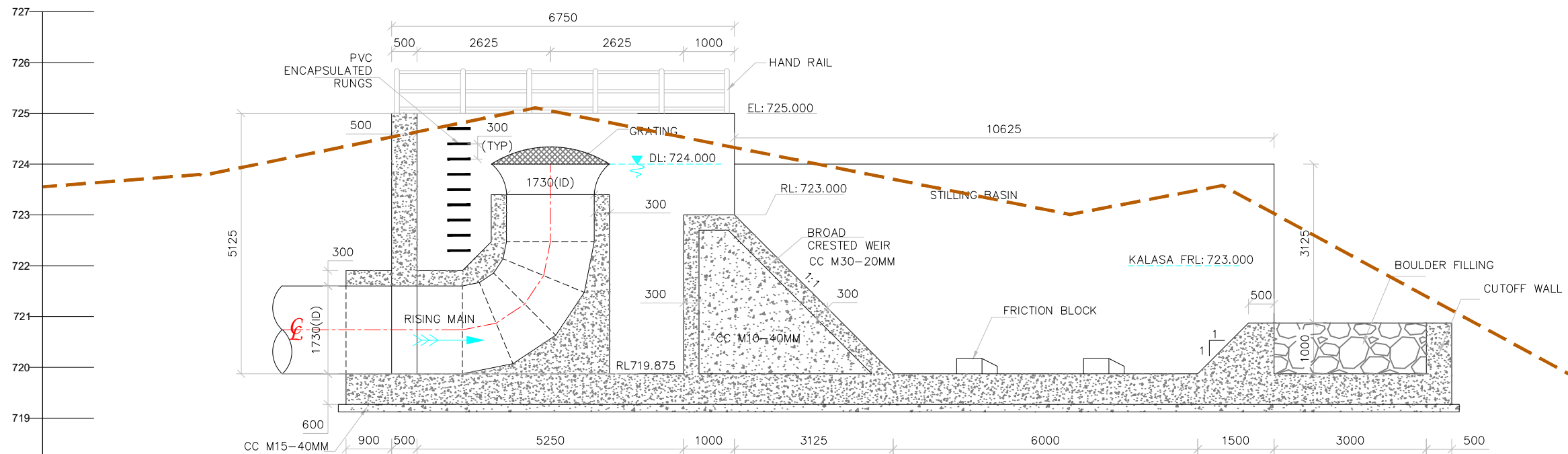
Executive Engineer
KNNL, Kalasa Project Division,
Khanapur.

Superintending Engineer,
KNNL, MLBCC Circle,
Naviluteertha.

Chief Engineer,
KNNL, Malaprabha Project Zone,
Dharwad.



PLAN OF DELIVERY CHAMBER
(SCALE 1:100)



SECTION 1-1
(SCALE 1:100)

Notes

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METERS.
- DO NOT MEASURE THE DRAWING, FOLLOW THE DIMENSION MENTIONED.
- GRADE OF CONCRETE FOR RCC WORKS SHALL BE M30.
- GRADE OF STEEL SHALL BE FE500.
- COVER SHALL BE PROVIDED AS BELOW.
A) BASE SLAB – 50MM,
B) PRECAST SLAB – 20MM,
C) WALL ON EARTH SIDE–50MM,
D) WALL ON INNER SIDE– 30MM.
- ALL PCC SHALL BE MINIMUM 100MM THICK OF GRADE M15.
- DEVELOPMENT LENGTH SHALL BE 50 TIMES THE BAR DIAMETER AND SHALL BE STAGGERED.
- CONSTRUCTION JOINTS SHALL BE PROVIDED AT EVERY 2M HEIGHT FOR THE CONCRETE WALLS BELOW THE GROUND LEVEL. APPROVED PVC WATER STOPPER OF 230MM WIDE 8MM THICK SHALL BE USED.
- INLET/OUTLET DETAILS ARE TO BE FOLLOWED ACCORDING TO SERVICE DRAWING.
- INSERT PLATES IF REQUIRED, TO BE FOLLOWED ACCORDING TO ARCH/SERVICE DRAWING.
- WATER PROOFING OF APPROVED MAKE SHOULD BE USED AS PER SPECIFICATIONS.
- ANY DISCREPANCY IN THE DRAWING, SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANTS PRIOR TO EXECUTION.
- NET SBC OF SOIL IS CONSIDERED AS 15T/SQM.
- FOR LOCATING VALVE CHAMBER ALONG RISING MAIN REFER APPROVED SURGE REPORT AND L-SECTION OF RISING MAIN.
- SIZE AND PRESSURE RATING OF THE VALVES ARE AS PER SURGE REPORT.

EXISTING CANAL PARAMETERS LIKE CANAL BED WIDTH, FULL SUPPLY DEPTH , FREE BOARD, SIDE SLOPES, CANAL BED SLOPES, ROAD WIDTH INDICATIVE-AS PER SITE CONDITION



0	For Approval	22.11.2022	NMS	HSC	SN	NR
Rev.	Description	Date	Drw.	Dsg.	Chk.	App.

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Project Title **Kalasa Nala Diversion Scheme (Lift Scheme)**

Sub Title **Haltara Lift**

Drawing Title **General Arrangement Drawing for Delivery Chamber**

Date	Drw.	Dsg.	Chk.	App.	Scale	Drawing Status
22.11.2022	NMS	HSC	SN	NR	As Shown	For Approval
Project No.	Drawing No.	Sheet No.	Rev.			
1376X	EIT-1376X-WRE-DC-GAD-A051	02 of 03	0			

Executive Engineer
KNNL, Kalasa Project Division,
Khanapur.

Superintending Engineer,
KNNL, MLBCC Circle,
Naviluteertha.

Chief Engineer,
KNNL, Malaprabha Project Zone,
Dharwad.