

PRECISION
POWER
PROGRESS

SU | **SSNR**[®]
SSNR PROJECTS PRIVATE LIMITED.



DAMS & BARRAGES | HYDEL PROJECTS | TUNNELS | ROADS & BRIDGES | CANALS

DISCOVER INNOVATIVE INFRASTRUCTURAL POSSIBILITIES

Dear fellow colleagues and esteemed partners,

As the chairman of our esteemed company M/s SSNR PROJECTS PRIVATE LIMITED, I am humbled by the trust and confidence you have placed in us. We have come a long way in building India's future, and it is my pleasure to lead such a dedicated and passionate team.

Our commitment to creating world-class infrastructure in different regions of India has never been stronger. We understand the importance of infrastructure in fostering economic growth and social development, and we are proud to play our part in building a better India.

As we move forward, let me assure that we are just getting started and unwavering focus remains on delivering the highest quality projects that meet the needs of our customers and the communities we serve. We will continue to leverage the latest technologies and best practices to ensure that our projects are efficient, sustainable, and resilient.

I urge all of us to work together with a shared vision, dedication, and commitment towards achieving our common goal. Let us continue to collaborate and innovate to create a brighter future for India.

S. Satyanarayana Raju

S. Satyanarayana Raju, MD





OUR VISION

To be the leader of next-generation solutions for strong infrastructure development ensuring competitive, transparent and reliable access.

OUR MISSION

Our mission is to maintain uncompromising quality standards, adding value of our customers' projects, and preserve our position as one of the best infrastructure and construction company providing end-to-end solutions to diverse industries. Each project has a blend of high-quality materials, skilled man power and advanced equipments.

COMMITTED TO EXCELLENCE

From a modest beginning in the early 90's to a focused super class infrastructure company today with an exceptional entrepreneurial acumen, commitment to excellence, consistent teamwork, undaunted integrity, continuous learning and focus on innovation and creativity SSNR today shines high on the horizon of India's Infrastructure. With the primary business being development of infrastructure development, the company's operations span across various aspects of infrastructure development such as Dams & Barrages, Hydel Projects, Tunnels, Roads & Bridges, Canals and construction services.

For more than two decades, SSNR PROJECTS has shown passionate commitment to support a culture of safety, environmental sustainability and a high quality of execution. With its registered office in VISAKHAPATNAM, SSNR PROJECTS is committed to achieving its next phase of growth through value-centric ideals and peerless innovation.

CORE VALUES

QUALITY

We always strive to provide high-quality services that meet or exceed industry standards.

INNOVATION

We value innovation and the development of new technologies and solutions that can help deliver better infrastructure services.

INTEGRITY

We prioritize integrity in our operations, adhering to ethical and moral standards, and maintaining transparency and accountability.

SUSTAINABILITY

As infrastructure development can have significant environmental and social impacts, We prioritize sustainability by implementing environmentally-friendly practices and engaging in socially responsible activities.

SAFETY

Safety is a critical consideration for us, and hence we prioritize safety by ensuring that our projects and operations comply with safety regulations, protocols and procedures.

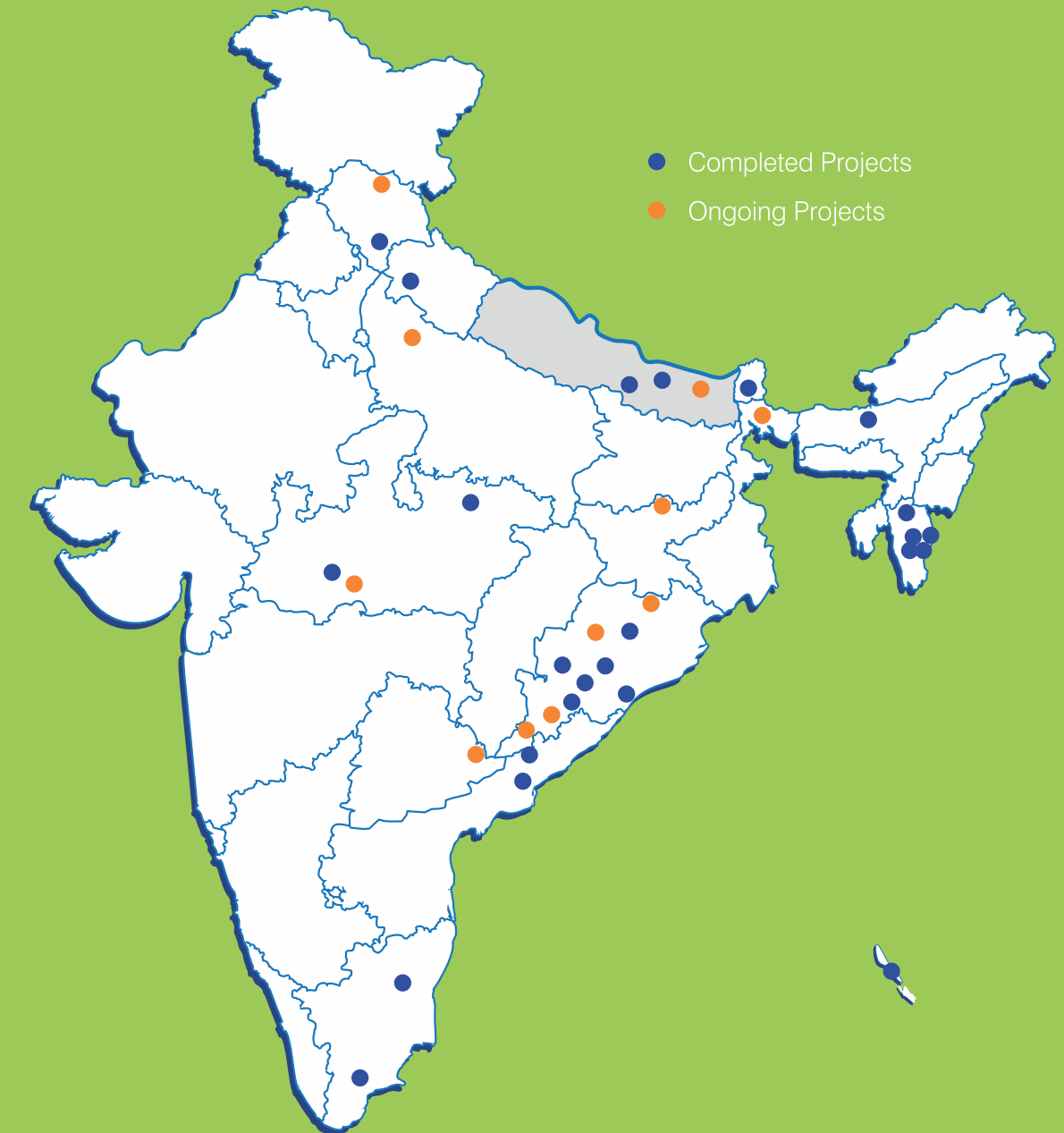
COLLABORATION

Collaboration is often necessary for successful infrastructure development, hence for us collaboration with all necessary stakeholders, partners, and other industry players is a must.

CONTINUOUS IMPROVEMENT

At SSNR we are consciously improving our performance, identifying areas for improvement, and implementing strategies to enhance our operations and services.

OUR PRESENCE



LEADERSHIP



Mr. S. SATYANARAYANA RAJU, MD

Mr. Satyanarayana Raju has vast and varied experience in the execution of Civil Engineering Works & contracts of different magnitudes. Having acquired the knowledge initially by working in reputed Infrastructure companies in the early 1990s and thereafter forayed individually into contract works. He has immense knowledge not only in the execution of underground tunnels especially for Hydro Electric Projects and railways but also in the execution of irrigation & road projects for National Highways Authority of India. He has thorough knowledge of working of all types of construction equipment & machinery. He was the brain behind the establishment and success of the Firm M/s.S. Satyanarayana Raju & Co., in association with his brother S. Seeta Rama Raju, which is now grown into a dependable Super Class contracting Company, SSNR Projects Private Limited.

Mr. S. SEETA RAMA RAJU, Director

Mr. Seeta Rama Raju closely monitors the progress of the projects undertaken by the Company. He has very rich working experience in all types of civil engineering construction works especially in irrigation & Hydroelectric Projects. He has acquired hands on experience on all aspects of construction and has more than 30 years of experience in the field of civil engineering contract works.

ORGANISATION CHART





ONGOING PROJECTS

JAL JEEVAN MISSION (RURAL) MORADABAD CIRCLE

WATER SUPPLY SCHEME

Location	: Moradabad, Uttar Pradesh (UP)
Client	: Uttar Pradesh Jal Nigam (Rural)
Status of work	: Work in progress
Value of work	: Rs. 224.6 Crores
Scope of work	: Survey, Design, DPR Preparation, Procurement and Construction to ensure the Full functionality of Defunct, Partial Operative Rural Water Supply Schemes, including 1 month Trial Run

and Comprehensive Operations and Maintenance for 120 months. Section B Comprehensive Operation and Maintenance for 120 months of Fully Functional Schemes for Moradabad Circle (Dist. Bijnor, Moradabad & Rampur)



KANUPUR SPILLWAY PROJECT

SPILLWAY

Location	: Kanupur, Odisha.
Client	: Odisha Construction Corporation
Status of work	: Work in progress
Scope of work	: Construction of Spillway of kanupur Irrigation Project (Balance project)

SALIENT FEATURES

M.W.L. (Maximum Water Level)	: 440.00 Mtr.
F.R.L. (Final Reservoir Level)	: 440.00 Mtr.
D.S.L. (Dead Shore Level)	: 425.00 Mtr.
T.B.L. (Top Balance Level)	: 443.500 Mtr.



SEVOKE RAILWAY TUNNEL PROJECT

TUNNEL - T1 & T2

Location	: Sevoke Railway Station, West Bengal
Client	: IRCON / Gammon Engineers and Contractors Pvt. Limited
Status of work	: Work in progress
Value of work	: Rs. 550 Crores
Scope of work	: Construction of Tunnel T1 and T2 on Sevoke (West Bengal) to Rangpo (Sikkim) New Single line BG Railway Line Project

SALIENT FEATURES

T1	: 4203.00 Mtr.
T2	: 867.00 Mtr.
Finished Diameter	: 7.2 Mtr.
Underground Excavation	: 378954.00 Cum.
Shot crete	: 245172.00 Sqm.
Structural steel support	: 307.00 MT.
Lattice Girder	: 1539.00 MT.
Lining Concrete	: 69868.00 Cum.



ARUN-3 HYDROELECTRIC PROJECT (900 MW)

HYDROELECTRIC

Location	: Tumlingtar, Nepal
Client	: SAPDC (SJVN) / Patel Engineering Ltd.
Status of work	: Work in progress
Value of Work	: Rs 447 Crores (Npr 715.87 Cr)
Scope of work	: Execution of the civil works of the Adit-2, Adit -3 and HRT through Adit-2 & Adit-3 for Arun-3 Hydro Electric Project.

SALIENT FEATURES

Adit-2	: 742.95 Mtr.
Adit -3	: 379.53 Mtr.
Adit finished Dia.	: 7.5 Mtr.
HRT	: 6856.61 Mtr.
HRT finished Dia.	: 9.50 Mtr.
Under Ground Excavation	: 745224.00 Cum.
Lining Concrete	: 117026.00 Cum.
Shotcrete	: 15711.00 Cum.
Structural Steel Support	: 3478.00 MT.



LOWER SUKTEL IRRIGATION PROJECT (SPILLWAY)

SPILLWAY

Location	: Balangir, Odisha
Client	: Odisha Construction Corporation
Status of work	: Work in progress
Value of Work	: Rs. 250 Crores
Scope of work	: Construction of Spillway – Work includes earthwork excavation, reinforcement, concrete etc in connection with Lower Suktel Irrigation Project

SALIENT FEATURES

Span of Spillway	: 224.00 Mtr.
Height of Spillway	: 41.00 Mtr.
No of Gates	: 11 Nos.
Spillway concrete	: 298000.00 Cum.
Spillway reinforcement	: 800.00 MT.
Excavation in all jobs	: 791000.00 Cum.



LOWER SUKTEL IRRIGATION PROJECT (EARTH DAM)

EARTH DAM

Location	: Balangir, Odisha
Client	: Odisha Construction Corporation
Status of work	: Work in progress
Value of Work	: Rs. 160 crores
Scope of work	: Construction of Earth dam – Work includes earthwork excavation, embankment, filter blanket, rip-rap for earth dam in connection with Lower Suktel irrigation project.

SALIENT FEATURES

Length of Earth Dam	: 1410.00 Mtr.
Height of Dam	: 28.00 Mtr.
Top width of Dam	: 6.00 Mtr.
Bottom width of Dam	: 180.00 Mtr.
Banking	: 3300000 Cum.
Filters – Sand	: 215000 Cum.
Filters – Aggregates	: 32000 Cum.
Rock toe – Boulder	: 104000 Cum.
Excavation in all classes	: 681000 Cum.



BOUDH SITE RAILWAY TUNNEL PROJECT

TUNNEL - T7

Location	: Boudh, Odisha
Client	: East coast Railway
Status of work	: Work in progress
Value of work	: Rs. 87.22 Crores
Scope of work	: Construction of Tunnel T-7 for our (Adenigarh-Purunakatak) consisting of Tunnel- T4, T5, T6 & T7 (Approx. Length of 7.492 Km) & allied works of Khurda-Bolangir New Rail Line project in East Coast Railway in the State of Odisha.

SALIENT FEATURES

T7	: 1975.00 Mtr.
Underground Excavation	: 105370.00 Cum.
Open excavation	: 74360.00 Cum.
Underground concrete	: 18372.00 Cum.



TGGENCO-BTPS PROJECT (4X270MW)

CONSTRUCTION OF ASH POND

Location	: Manuguru, bhadradri Kothagudem, Telengana
Client	: TG Genco
Status of work	: Work in progress
Scope of work	: Construction of ash pond with length 2.6Km the average high 7Meters

SALIENT FEATURES

Pond area	: 100.00 Acres.
Filling of soil	: 702000.00 Cum.
Granite metal	: 11050.00 Cum.
Sand filter	: 61800.00 Cum.
Concreate of all grades	: 1000.00 Cum.



BG RAIL LINE PROJECT (DHANBAD)

RAIL LINE

Location	: Koderma, Patna
Client	: East Central Railway
Status of work	: Work in progress
Scope of work	: Construction of One single line BG Tunnel i.e. Tunnel No.-04 (approx total length 250 RM) between Km. 34.750 to Km. 35.100 and other associated works in Jamundaha-kheraundh section in connection with construction of New BG Rail line from Koderma to Tilaiya under jurisdiction of Dy.CE/C/Dhanbad under Dhanbad Division

SALIENT FEATURES

Tunnel Length	: 250.00 RM.
Underground excavation	: 16640.00 Cum.



NAZONGA HYDROELECTRIC PROJECT (0.90 MW)

HYDROELECTRIC

Location	: Kullu, Himachal Pradesh
Client	: Dev Bhumi Hydro Power Private Limited
Status of work	: Work in progress
Scope of work	: The project is proposed in Kullu district of Himachal Pradesh. The Project site is located on the Tahuk village Stream near Nazonga nallah in Kullu Dist project is accessed through main mandi-kullu highway NH-5 on left side of RiverParvati. The project is located between longitude altitude at weir is 2292 m above sea level in EPC mode.



COMPLETED PROJECTS
IN LAST 10 YEARS

MIZORAM BG RAILWAY LINE BRIDGE (HIGH LEVEL BRIDGE)

HIGH LEVEL BRIDGE

Location	: Bairabi, Sairang, Mizoram.
Client	: Northeast Frontier Railway
Status of work	: Completed
Value of Work	: Rs. 88.5 Crores
Sope of work	: Scope of Work: Construction of sub-structure over pile foundation for Major Bridges No. 32 (4 X 30.5m Composite Girder) at Ch. 11.770 KM, construction of counterfort return wall over pile foundation between Ch. 11560 to 11760m & Ch 9550 to 9750 m and other ancillary works in

between station Bairabi & Hortoki.
Construction of sub-structure over pile foundation for Major Bridge No. 67(span 10×30.5m Composite Girder) at Ch. 22.667 KM, Major Bridge no. 80 (span 5×24.4, composite girder) at Ch. 28.584km & Major Bridge No. 85 (span 4×24.4m composite girder) at Ch. 29.154km including protection works and other ancillary works in between station Bairabi & Sairang in connection with the construction of new BG Railway line from Bairabi to Sairang (Mizoram).



LOWER SOLU HYDROELECTRIC PROJECT (82 MW)

HYDROELECTRIC

Location	: Solukumbhu, Nepal
Client	: Solu Hydropower Pvt Ltd.
Status of work	: Completed
Value of Work	: Rs. 270.90 Crores (Npr 433.44 Cr)
Scope of work	: Construction of Lower Solu HEP- Packages 1 & 2 work includes construction of Dam & other head works, Underground Excavation in HRT, Intake & De-silting Chambers & Approach Tunnels, SFT etc.



KAWNPUI STATION YARD

STATION YARD

Location	:	Kawnpui, Mizoram
Client	:	Northeast Frontier Railway
Status of the work	:	Completed
Scope of work	:	Construction of minor bridges, Retaining wall, Protection works, side drain including Earthwork in cutting and filling for making formation and other ancillary work from Ch. Km 25.350 to km 26.800 in connection with the construction of new BG Railway line from Bhairabi to Sairang (Mizoram) (Two Packet System).

SALIENT FEATURES

Earthwork in cutting –All Kinds of Soil	:	8,14,500.00 Cum.
Earthwork in cutting –Soft Rock	:	13,19,200.00 Cum.
Earthwork in Cutting-Hard Rock	:	2,72,300.00 Cum.



LIKHU-4 HYDROELECTRIC PROJECT

HYDROELECTRIC

Location	: Ramechhap / Okaldunga, Nepal
Client	: Green ventures Limited
Status of work	: Completed
Value of Work	: Rs 268.404 Crores (Npr 429.85 Cr)
Scope of work	: Construction of Head works comprising of weir, under sluice, Head regulator, Feeder channel, De-silting basin, power duct, river protection works, temporary river diversion works, slope protection works, respective Hydromechanical works, construction, upgrading & maintenance of project roads, Construction of abutments and approach for Bailey bridge including supply and erection of Bailey Bridge (covered under Package 01), Construction of Head Race Tunnel from Chainage 0+000- 3+400 comprising Construction of Portals, Excavation and Rock Supports of Adit 2, Slope Protection works of Portals, covered under Package 02(A) of Likhu-IV Hydroelectric Project.

SALIENT FEATURES

Adit-1	: 245.00 Mtr.
Adit-2	: 281.00 Mtr.
HRT	: 3400.00 Mtr.
Finished Dia.	: 4.20 Mtr.
Under Ground Excavation	: 58100.00 Cum.
Lining Concrete	: 7000.00 Cum.
Shotcrete	: 1555.00 Cum.
Structural Steel Support	: 350.00 MT.
Sluice Height	: 21.50 Mtr.
Length of Sluice & Weir	: 42.00 to 119 Mtr.
Feeder Length	: 107.00 Mtrs. (F1 & F2 Avg.)
Head Works RCC	: 50000.00 Cum.
Head Works Reinforcement	: 3500.00 MT.



NORTH EAST FRONTIER RAILWAY (TUNNEL 23)

TUNNEL - 23	
Location	: Sairang, Mizoram
Client	: Northeast Frontier Railway
Status of work	: Completed
Value of Work	: Rs. 118.82 Crores
Scope of work	: Construction of Single Line BG Tunnel no. 23 (App. Length 1056 RM) at Km. 43.160 to 44.356 in between station Mualkhang & Sairang in connection with construction of New Railway Line Project Bhairabi – Sairang (Mizoram) of NF Railway (Construction)

SALIENT FEATURES	
Method of Tunneling	: NATM
Length of Tunnel	: 1200.00 Mtr.
Underground Excavation	: 78,000.00 Cum. (App.)
Open Excavation	: 400000.00 Cum. (App.)
Underground Shotcrete	: 18,000.00 Cum. (App.)
Underground Concrete	: 17, 400.00 Cum. (App.)
Steel	: 2320.00 MT. (App.)



NORTH EAST FRONTIER RAILWAY (TUNNEL - 21 & 22)

TUNNEL - 21 & 22

Location	: Mualkhang & Sairang, Mizoram
Client	: Northeast Frontier Railway
Status of work	: Completed
Value of Work	: Rs. 97.23 Crores
Scope of work	: Construction of Single Line BG Tunnel no. 21 (App. Length 630 RM) at Km. 39.507 to Km. 40.137 & Tunnel No. 22 (App.Length 178 RM) at Km. 42.75 to Km. 42.930 inbetween Station Mualkhang & Sairang in connection with construction of New Railway Line Project Bhairabi – Sairang (Mizoram) of NF Railway (Construction)

SALIENT FEATURES

Method of Tunneling	: NATM
Length of Tunnel	: 630.00 Mtr. & 204.00 Mtr.
Underground Excavation	: 56,500.00 Cum. (App.)
Open Excavation	: 537000.00 Cum. (App.)
Underground Shotcrete	: 10,450.00 Cum. (App.)
Underground Concrete	: 13,100.00 Cum. (App.)
Steel	: 2612.00 MT. (App.)



WESTERN RAILWAY (INDORE) – TUNNEL NO.1

TUNNEL - 1

Location	: Pithampur, Madhya Pradesh
Client	: Western Railway
Status of work	: Completed
Value of Work	: Rs. 148.88 Crores
Scope of work	: Construction of single line BG Tunnel No.1 between Km 24.513 to Km 27.480, Total Length 2967m (Underground tunnel -2620m and cut & cover tunnel -347m) including earthwork in formation and protection work at approaches of tunnel portals from Km 24.460 to Km 24.513 and Km 27.600 to Km 27.480 including all other ancillary works in between stations Tihi and Pithampur in the state of Madhya Pradesh in connection with New BG Railway Line Project from Dahod to Indore of Western Railway.

SALIENT FEATURES

Length of tunnel	: 2967.00 Mtr.
Finished Tunnel Dia	: 7.00 Mtr.
Under ground excavation	: 180217.00 cum.
Open excavation	: 115950.00 cum.
Underground concrete	: 82612.00 cum.
Permanent steel support	: 948.00 MT.



SATNA-PANNA NEW BG LINE PROJECT

BG LINE

Location	: Nagod, Satna, Madhya Pradesh
Client	: West Central Railways
Status of work	: Completed
Value of Work	: Rs. 86.49 Crores
Scope of work	: Earthwork in formation and construction of Major & minor bridges, RUB between Ch 23000 m to 43000 m & other ancillary works in connection with Panna-Satna section of Lalitpur-Singrauli New BG rail line project.

SALIENT FEATURES

Earth work	: 26,00,000.00 cum.
No. of Major Bridges	: 3 Nos. (31.50 mtrs. x 5, 25.00 x 4, 25 x 1)
No. of Minor Bridges	: 18 Nos.
No. of RUB	: 11 Nos.



TELENGIRI IRRIGATION PROJECT (SPILLWAY)

SPILLWAY

Location	: Jeypore, Koraput, Odisha
Client	: Odisha Construction Corporation
Status of work	: Completed
Value of Work	: Rs. 136.9 Crores
Scope of work	: Construction of Spillway – Work includes earthwork excavation, reinforcement, concrete, etc in connection with Telengiri Irrigation Project

SALIENT FEATURES

Span of Spillway	: 113.00 Mtr.
Height of Spillway	: 43.00 Mtr.
No of Gates	: 3 Nos.
Spillway concrete	: 396000.00 Cum.
Spillway reinforcement	: 2750.00 MT.
Excavation in all classes	: 623000.00 Cum.



TELENGIRI IRRIGATION PROJECT (PERIPHERY ROAD)

PERIPHERY ROAD

Location	: Jeypore, Odisha
Client	: W. R. Department, Odisha
Status of work	: Completed
Scope of work	: Construction of Periphery Road from RD 0.00Mtr to 6850.00 meters excluding High level Bridge (Relocation of SH-48)



TELENGIRI IRRIGATION PROJECT (CANAL)

CANAL	
Location	: Jeypore, Koraput, Odisha
Client	: Water Resources Department – Govt. Odisha
Status of work	: Completed
Scope of work	: Construction of Telengiri main canal from RD 0.00 to 6480 including all structures – in connection with Telengiri Irrigation Project

SALIENT FEATURES	
Length of Canal	: 6.2 Km.
FSD at Ch.0.00	: 9.2×1.9
Minor structures	: 17 Nos



RET IRRIGATION PROJECT (SPILLWAY)

SPILLWAY

Location	: Bhavanipatna, Odisha
Client	: Odisha Construction Corporation
Status of work	: Completed
Value of Work	: Rs. 169.03 Crores
Scope of work	: Construction of spillway (RCC Structure) including earthwork in Excavation in all kinds of soil, Rock and embankment of left and right side abutments in Kalahandi District.

SALIENT FEATURES

Earthwork Excavation	: 398015.57 Cum.
Excavation in Medium Hard Rock	: 100967.95 Cum.
Excavation in Hard Rock	: 83222.98 Cum.
Earth work in Filling & Compaction	: 635619.05 Cum.
CC/RCC in all grades	: 324046.50 Cum.
Rock Toe & Stone Pitching	: 19521.09 Cum.
Number of Gates	: 6 Nos.
Height of Dam	: 45.00 Mtr.
Number of Piers	: 7.00 Nos.
Height of Pier	: 31.40 Mtr.
Span	: 6 x 15 = 90 Mtr.



NORTH EAST FRONTIER RAILWAY (TUNNEL 12)

TUNNEL - 12

Location	: Kawnpui, Mizoram
Client	: Northeast Frontier Railway
Status of work	: Completed
Value of Work	: Rs. 109.30 Crores
Scope of work	: Construction of Single Line BG Tunnel no. 12 (App. Length 1056 RM) at Km. 24.280 to 25.316 in between station Hortoki & Kawnpui

SALIENT FEATURES

Method of Tunneling	: NATM
Length of Tunnel	: 1056.00 Mtr.
Underground Excavation	: 68,700.00 Cum. (App.)
Open Excavation	: 499000.00 Cum. (App.)
Underground Shotcrete	: 12,700.00 Cum. (App.)
Underground Concrete	: 16,210.00 Cum. (App.)
Steel	: 2481.00 MT. (App.)



TELENGIRI IRRIGATION PROJECT (EARTH DAM)

EARTH DAM	
Location	: Jeypore, Koraput, Odisha
Client	: Odisha Construction Corporation
Status of work	: Completed
Value of Work	: Rs. 58.12 Crores
Scope of work	: Construction of Earth dam – Work includes earthwork excavation, embankment, filter blanket, riprap for earth dam in connection with Telengiri irrigation Project, TC Division, Orissa Construction Corporation Ltd. Barniput

SALIENT FEATURES	
Length of Earth Dam	: 600.00 Mtr.
Height of Dam	: 43.00 Mtr.
Top width of Dam	: 6.0 Mtr.
Bottom width of Dam	: 200.00 Mtr.
Banking	: 36,00,000.00 Cum.
Filters – Sand	: 2,25,000.00 Cum.
Filters – Aggregates	: 32,000.00 Cum.
Rock toe – Boulder	: 35,000.00 Cum.
Excavation in all classes	: 4,05,000.00 Cum.



CHELIGADA IRRIGATION PROJECT (HIGH LEVEL BRIDGE)

HIGH LEVEL BRIDGE

Location	: Cheligada, Odisha
Client	: W.R. Department, Odisha
Status of work	: Completed
Scope of work	: Construction of High Level Bridge across Kunapada Nallah in the reservoir area of Cheligada Irrigation Project



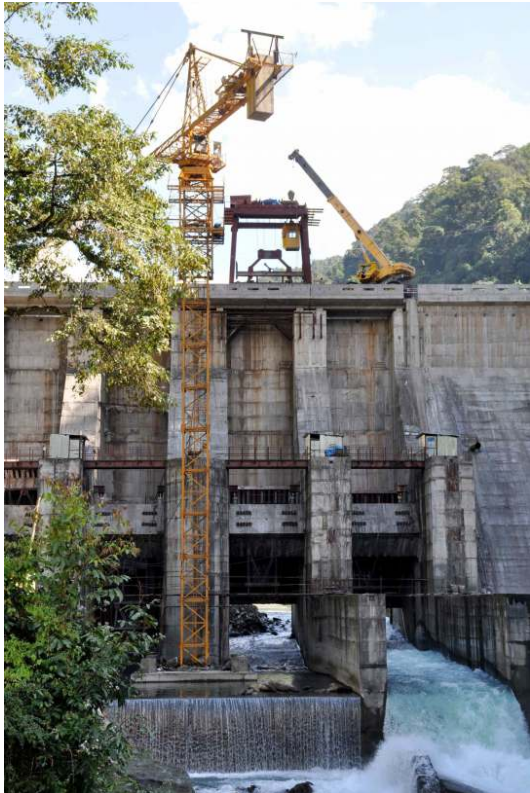
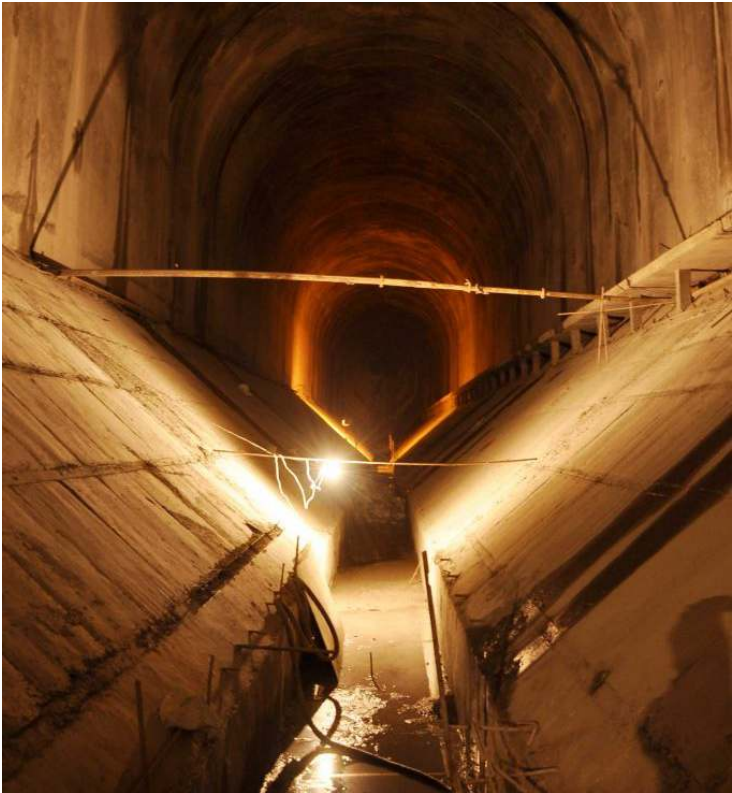
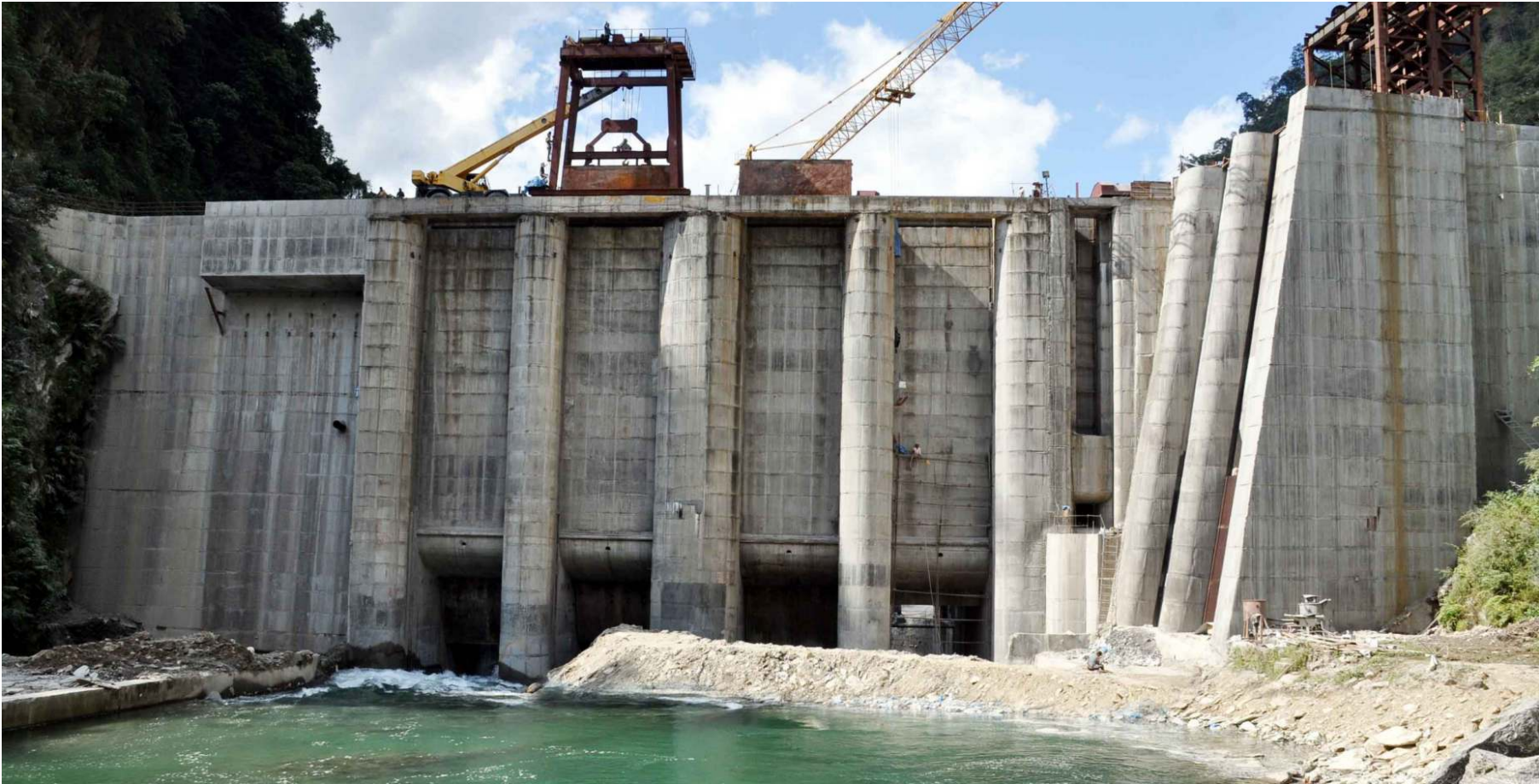
DIKCHU HEP 96 MW (DAM & TUNNEL)

DAM & TUNNEL

Location	: Lingdok, East Sikkim
Client	: Haridwar Infrastructure Ltd (Greenko Group)
Status of work	: Completed
Value of Work	: Rs. 251.09 Crores
Scope of work	: Construction of Approach Roads, Intake Tunnel, Access Tunnels, De-silting Chambers, HRT, Gate Shafts, Silt Flushing Tunnel and other works in connection with Dikchu Hydroelectric Project and Construction of 35 Meters Height Concrete Dam and Intake Structure

SALIENT FEATURES

Height of Dam	: 35.00 Mtr.
Length of Dam	: 93.00 Mtr.
Type of Gates	: Radial & Stop – Log
No of Gates	: 4 Nos.
Dam Concrete	: 69300.00 Cum. (App.)
Dam Reinforcement	: 4500.00 MT. (App.)
Overflow blocks	: 2 Nos.
Non overflow blocks	: 3 Nos.
Intake	: 390 Mtr. X 5.4 Mtr.
HRT	: 5500 Mtr. X 5.4 Mtr.
SFT	: 479 Mtr. X 3.8 Mtr.
Desilting Chamber	: 140 Mtr. x 12 Mtr. x15.5 Mtr.
No of Gate Shaft	: 2 Nos.
Length of Shaft	: 10 Mtr. & 22 Mtr.
Underground Excavation	: 1,42,450.00 Cum. (App.)
Underground Concrete works	: 23,500.00 Cum. (App.)
Concrete Lined Tunnel	: 4.8 Mtr. Dia X 3685 Mtr. Length



LUMDING-SILCHAR GAUGE CONVERSION (TUNNEL 7)

TUNNEL - 7

Location	: Mahur, N.C. Hills, Assam
Client	: Northeast Frontier Railway
Status of work	: Completed
Value of Work	: Rs. 140 Crores
Scope of work	: Construction of Tunnel No.7 including earthwork in formation to make profile as per BG standard and other miscellaneous works at the approaches in connection with Lumding – Silchar Gauge Conversion Project.

SALIENT FEATURES

Length of Tunnel	: 1687.00 Mtr.
Underground Excavation	: 1,00,000.00 Cum.
Open Excavation	: 5,80,000.00 Cum.
Underground Concrete	: 50,000.00 Cum.
Permanent Steel supports	: 5,725.00 MT.



LUMDING-SILCHAR GAUGE CONVERSION (TUNNEL 5-6)

TUNNEL - 5-6

Location	: Mahur, N.C. Hills, Assam
Client	: Northeast Frontier Railway
Status of work	: Completed
Scope of work	: Construction of Tunnel No.5 & 6 including earthwork in formation to make profile as per BG standard and other miscellaneous works at the approaches in connection with Lumding Silchair Gauge Conversion Project.

SALIENT FEATURES

Length of Tunnel	: 230.00 Mtr.
Underground Excavation	: 12,000.00 Cum.
Open Excavation	: 8,00,000.00 Cum.
Underground Concrete	: 7,000 Cum.
Permanent Steel supports	: 725.00 MT.



PLANT & MACHINERY

S. NO.	EQUIPMENT TYPE	EQUIPMENT MODEL	QUANTITY
A TUNNELLING EQUIPMENT			
1.	Tunnel Boring Equipment		13 Nos
	Tunnel Jumbo (Boomer)	Atlas Copco L2D	8
	Tunnel Jumbo (Boomer)	Atlas Copco 282	5
2	Continuous Loaders		02 Nos
	HAGG Loader	Atlas Copco 7HRB	2
3	Concrete Spraying System		13 Nos
	Shotcrete Machine	20 Cum/Hr/Putzmeister-SPM 4210	2
	Shotcrete Machine	30 Cum/Hr/Putzmeister SPM 500	3
	Shotcrete Machine	30 Cum/Hr/Aliva 530	2
	Shotcrete Machine	20 Cum/Hr/Jacon MAXIJET E2	6
4	Tunnel utility		04 Nos
	Tele Handler	JCB LOADALL 530-110	3
	Tele Handler	MANITOU MXT 840	1
B FIXED HOISTING EQUIPMENT			
1	Tower Crane		01 Nos
	Tower Crane	10 Tones/Schwing Stetter	1
C DRILLING			
1	Compressor		24 Nos
	Diesel Compressor	540 CFM	4
	Diesel Compressor	450 CFM	14
	Diesel Compressor	400 CFM	4
	Diesel Compressor	350 CFM	2
2	Drill Rig		8 Nos
	Core Drill Rig	125mm dia	1
	Crawler Rig	ROC203/IR	2
	Crawler Rig	CM341/IR	5

S. NO.	EQUIPMENT TYPE	EQUIPMENT MODEL	QUANTITY
D EXCAVATION			
1	Excavator		49 Nos
	Excavator	SK380/Kobelco	3
	Excavator	DX340/Doosan	2
	Excavator	DX300/Doosan	3
	Excavator	DX225/Doosan	6
	Excavator	SK 210/ Kobelco	9
	Excavator	NXT 221/ JCB	2
	Excavator	SK 220 / Kobelco	7
	Excavator	SY 220 / Sany	2
	Excavator	EC 200 / VOLVO	1
	Excavator	EX200/TATA	2
	Excavator	EX110/TATA	1
	Excavator	SK140/145/ Kobelco	7
	Excavator	SY 140/ Sany	2
	Excavator	EX 70/TATA	1
	Excavator	SY 80 / Sany	1
2	Rock Breaking		17 Nos
	Rock Breaker	KOBELCO SK 220 Attachments	14
	Rock Breaker	KOBELCO SK 140 Attachments	3
E HAULING			
1	Tippers		113 Nos
	Tippers - 14 Cum Above	2518/TATA	38
	Tippers - 14 Cum Above	2523/TATA	45
	Tippers - 14 Cum Above	2523C / Bharat BENZ	4
	Tippers - 8 to 10 Cum	1613/TATA	4
	Tippers - 16 Cum	2830/TATA PRIMA	11
	Tippers - Small	1217C / Bharat BENZ	6
	Tippers - 14 Cum	TRUXO 25	5

PLANT & MACHINERY

S. NO.	EQUIPMENT TYPE	EQUIPMENT MODEL	QUANTITY
F	LOADING & LEVELLING		
1.	Back hoe Loader		11 Nos
	Back hoe Loader	4DX JCB	2
	Back hoe Loader	3DX JCB	9
2	Earth Levelling		08 Nos
	Dozer	D65/BEML	3
	Dozer	D50/BEML	4
	Dozer	SEM 816D	1
3	Front end Loading		13 Nos
	Wheel Loader	Hindustan 2021Z/HM8	5
	Wheel Loader	JCB 432 Zx	4
	Wheel Loader	CLG 856H Liugong Side Tilt	4
4	Compactor		03 Nos
	Vibratory Compactor	Escorts	3
5	Lifting		07 Nos
	Hydra	14 TON / Escort	6
	Hydra	16 TON / ACE	1
G	AGGREGATE PROCESSING UNITS		
1	Crusher including impactor		8 Nos
	Crusher including impactor	250 TPH /Metso	3
	Crusher including impactor	200 TPH / OMTECK	2
	Crusher including impactor	150 TPH	1
	Crusher including impactor	60 TPH	1
	Crusher including impactor	125 TPH	1
H	CONCRETE		
1	Batch mix Plant		16 Nos
	Batch mix Plant	45Cum/Hr/Schwing Stetter	1
	Batch mix Plant	30 Cum/Hr/Stetter	11
	Batch mix Plant	18 Cum/Hr/Schwing Stetter	3
	Batch mix Plant	15 Cum/Hr/Universal	1
2	Concrete Pump		18 Nos
	Concrete Pump	45Cum/Schwing SP 1800 / Putz 1410	6
	Concrete Pump	35 Cum/Stetter 1200 /Putzmeister 1400	10
	Concrete Pump	BP 350 Stetter	2

S. NO.	EQUIPMENT TYPE	EQUIPMENT MODEL	QUANTITY
3	Transit Mixers		57 Nos
	Transit Mixers	7 Cum/Stetter & 2518/TATA	32
	Transit Mixers	7 Cum/Stetter & 2523/TATA	5
	Transit Mixers	7 Cum/Stetter & TRUXO /MAHINDRA	10
	Transit Mixers	7 Cum/Stetter & TATA SINGA	3
	Transit Mixers	4 Cum/Stetter & 1613/1618/TATA	7
4	Self Load Transit Mixers		07 Nos
	Self Load Transit Mixers	4 Cum/ Schwing Stetter	2
	Self Load Transit Mixers	2 Cum/Ajax Fiori	4
	Self Load Transit Mixers	2 Cum/Schwing Stetter	1
5	Boom Placers		02 Nos
	Concrete Pump (Boom Placer)	42 Mtrs long/ Schwing Stetter	1
	Concrete Pump (Boom Placer)	36 Mtrs long / Schwing Stetter	1
I	POWER GENERATION		
1	Diesel Generator		52 Nos
	Diesel Generator	600kva /CAT/Jakson	4
	Diesel Generator	400 & 500Kva /Jakson/CAT/Cummins	6
	Diesel Generator	300 & 380 & KVA/Cummins/Kirloskar	5
	Diesel Generator	250 KVA /Jakson/CAT/Cummins	3
	Diesel Generator	125 - 180KVA/Cummins/Kirloskar	
		Greavese/ Mahindra/Kakson	17
	Diesel Generator	15 - 82.5KVA/Cummins/Kirloskar	17

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