



**VISVESVARAYA JALA NIGAM LIMITED**  
(A Government of Karnataka Enterprise)

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Office of the Executive Engineer,  
VJNL, Upper Bhadra Project, Division No.07,  
Hiriyur Camp: Chitradurga -577501.

No:EE/VJNL/UBP/Div No.7/Hyr/camp.CTA/2022-23/ 922

Date: 9.11.2022

**TO WHOM SO EVER IT MAY CONCERN**

**WORK DONE CERTIFICATE**

**Ref. No. Agreement No.36/2017-18 Dt.21.02.2018**

This is to certify that M/s. Shankaranarayana Constructions (P) Ltd. Having their Registered office at "SNC House", 4<sup>th</sup> floor, no 7, Residency road (Old No 9, Raja Ram Mohan Roy Road), Bangalore – 560025, is awarded the below mentioned work as follows:

Name of Work:	Construction of Chitradurga Branch Canal including Earthwork excavation, Embankment, CC lining using Mechanical paver, Cross Drainage works / Road bridges / Cart Track Crossings / Tunnel / Aqueduct from km 73.000 to 90.000 km. UBP – Pkg – IX
EPC Contractor:	M/s Shankaranarayana Constructions Private Limited, Bangalore.
Agreement No.	36/2017-18 Dated 21.02.2018
Value of Contract:	<b>Rs. 425.61 Crores</b>
Completed Contract Value Up To September-2022	<b>RA Bill =Rs.396.38 Crores.</b> <b>Escalation Bill=28.25 Crores</b> <b>Total =424.63</b>
Percentage of work completed	<b>FINANCIAL PROGRESS -93.13%</b> <b>PHYSICAL PROGRESS -99.37%</b>
Tunnel Details	<b><u>Tunnel T1:</u></b> Type of Tunnel: Modified Horse Shoe Excavated Dia = 7.2845 m Finished Dia = 5.625 m Cross-sectional Area = 44.005 Sqm Tunnel Length = 4.45 Km Completed length = 4.45 Km in all aspects Completion date= 25.05.2021  <b><u>Tunnel T2:</u></b> Type of Tunnel: Modified Horse Shoe Excavated Dia = 7.2845 m Finished Dia = 5.625 m Cross-sectional Area = 44.005 Sqm

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	<p>Tunnel Length = 1.74 Km  Completed length = 1.74 Km in all aspects  Completion date= 25.08.2020</p> <p><b><u>Tunnel T3:</u></b>  Type of Tunnel: Modified Horse Shoe  Excavated Dia = 7.2845 m  Finished Dia = 5.625 m  Cross-sectional Area = 44.005 Sqm  Tunnel Length = 1.10 Km  Completed length = 1.10 Km in all respects  Completion date=25.02.2020</p>
Technique adopted for Tunneling	Drill & Blast/Heading & Benching – Length -7.29Km

The details of work executed by the agency are as follows:

Sl No.	Description	Unit	Qty FY 2018-19	Qty FY 2019-20	Qty FY 2020-21	Qty FY 2021-22	Qty FY 2022-23	Total Qty
1	<b><u>Tunnel Excavation:</u></b> Tunnel excavation using tunnel boomer.	Cum	90862.07	177877.38	21094.17	4500.47		294334.09
2	<b><u>Tunnel concrete</u></b>							
a	Backfill Concrete – M10	Cum	8147.1	4719.19	221.10	313.01		13400.40
b	Tunnel Portal – M20	Cum	2221.73	746.26	-	0		2968.00
c	Tunnel lining by Hydraulic Gantry (9m length) – M35	Cum	-	19946.02	9446.79	29060.69		58453.50
3	Shotcrete – 40mm thk. in 2 layers	Sqm	91421.3	131400.96	9792	31684.93		264299.19
4	Rock bolt	Rmt	39268.5	47321.2	541	307.30		87438
5	Grouting	MT	530.25	3370.93	1658.52	2703.80		8263.50
6	Permanent Support in tunnel / Structural steel/Lattice Girder	MT	2163.89	1501.77	86.60	119.04		3871.30
7	<b><u>Canal &amp; Structure Excavation:</u></b>							
a	All kinds of soil	Cum	151104.90	74260.65	10565.99	13083.39		249014.93
b	Soft Rock	Cum	177331.03	75933.98	15206.98	4472.68		282944.67
c	Soft Rock with control blasting	Cum	118298.57	79515.93	0	0		197814.5
d	Hard Rock with control blasting	Cum	64828.42	8480.21	6637.95	1878.22		81824.80

Sl No	Description	Unit	Qty FY 2018-19	Qty FY 2019-20	Qty FY 2020-21	Qty FY 2021-22	Qty FY 2022-23	Total Qty
8	Providing Semi pervious/ pervious Embankment with 95% mechanical compaction	Cum	2296.07	14329.95	5427.01	29752.34		51805.37
9	Providing cohesive non-swelling soil - CNS with 95% mechanical compaction.	Cum	-	7172.14	2274.97	3055.68		12502.79
10	<b><u>Structure concrete</u></b>							
a	PCC - M10	Cum	2052.55	1046.74	176.49	280.18		3555.96
b	PCC - M15	Cum	2705.62	3562.40	1183.57	3481.63		10933.22
c	RCC - M20	Cum	-	2.49	-	12.60		15.09
d	RCC - M25	Cum	4089.70	2739.80	1435.36	255.59		8520.45
e	RCC - M30	Cum	1778.07	5622.45	828.84	2041.78		10271.14
11	<b><u>Canal lining concrete</u></b>							
a	CC Lining - M15 (100mm thk) with mechanical paver.	Sqm	19718.24	54996.13	14777.64	16155.39		105647.40
		Cum		529.17	34.03			563.20
12	Stone Pitching - 300mm tk.	Sqm		657.13	444.00	3447.00	542.00	5090.13
13	Reinforcement Steel	MT	1548.62	3444.45	326.68	378.08		5697.83
14	Stone Masonry	Cum		4582.63	1946.00	6770.00		13298.63
15	Completed length of Tunnel	Rmt	2892.00	2599.00	379.00	1421.00		7291.00
16	Completed length of Aqueduct	Rmt	600.00	531.00	307.00	9.00		1447.00
<b>Financial Progress</b>								<b>in Crores</b>
17	Price Escalation Bill	Rs in Cr.	8.14	8.99	0.00	0.00	11.11	<b>28.25</b>
18	RA Bill Amount	Rs in Cr.	130.48	175.87	30.02	41.31	18.7	<b>396.38</b>

The works executed by agency is satisfactory

Executive Engineer

VJNL, UBP, Division no-07

Hiriyur, Camp: Chitradurga