

TENDER DOCUMENT

FOR

**Execution of Balance Civil, Electrical and Hydro Mechanical works of
Mandal Dam under North Koel Reservoir Project, Jharkhand and Bihar**

Estimated Cost (Rs. 26.60 Crores)

TENDER NO: WAP/NK/DAM/JHARKHAND/2026

PRICE SCHEDULE

2nd Call



(भारत सरकार का उपक्रम-जल शक्ति मंत्रालय)
(A Government of India Undertaking-Ministry of Jal Shakti)

Preamble to the Price Schedule

1. In case of Percentage Rate Tenders, contractor shall fill up the usual printed form, stating at what percentage below/above (in figures as well as in words) the total estimated cost given in Price Schedule; he will be willing to execute the work. The tender submitted shall be treated as invalid if :-
 - The contractor does not quote percentage above/below/ at per on the total amount of tender or any section/sub head of the tender.
 - The percentage above/below/ at per is not quoted in figures & words both on the total amount of tender or any section/sub head of the tender.
 - The percentage quoted above/below/ at per is different in figures & words on the total amount of tender or any section/sub head of the tender.
2. In case the lowest tendered amount (amount worked on the basis of percentage above/below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning percentage above/below on estimated cost of tender including all sub sections/sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section/ sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers.
3. In case any of such contractor refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited.
4. If the revised tendered amount of two more contractors received in revised offer is again found to be equal, the lowest tender, among such contractors, shall be decided by draw of lots in the presence of Evaluation Committee of the Employer and the lowest contractors those have quoted equal amount of their tenders.
5. In case all the lowest contractors those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each bidder.
6. Contractor(s), whose earnest money is forfeited because of non-submission of revised offer, shall not be allowed to participate in the re-tendering process of the work.
7. Only percentage rate quoted tenders shall be considered. Any tender containing item rates is liable to be rejected. Percentage quoted by the contractor in percentage rate tender shall be accurately filled in figures and words, so that there is no discrepancy.
8. In Percentage Rate Tender, the tenderer shall quote percentage below/above (in figures as well as in words) at which he will be willing to execute the work. He shall also work out the total amount of his offer and the same should be written in figures as well as in words in such a way that no interpolation is possible. In case of figures, the word 'Rs.'

should be written before the figure of rupees and word 'P' after the decimal figures, e.g. 'Rs. 2.15P and in case of words, the word 'Rupees' should precede and the word 'Paisha' should be written at the end.

9. Contractor should satisfy himself with the total amount of the contract (as worked out in the Price Schedule) for the execution of the complete work.
10. Any error, if any in the Price Schedule, Design, Drawings to be brought in the notice of WAPCOS on or before Pre-BID meeting.

Note:

1. The estimated amounts for items are given in the Estimate.
2. The tenderer has to quote their offer in percentage above/below/ at-par the estimated amount.
3. The percentage rate shall be quoted up to 2 decimals.
4. **The Percentage (%) rate quoted for the contract shall be inclusive of all charges, except GST @18% as indicated in the Price Schedule.** GST as applicable shall be paid on submission of proof and Bill shall be accepted only after Bill is uploaded at GST Portal, subject to receipt of the same by Employer on back to back terms.
5. **The rate for carriage of materials shall be on actual lead at site at the time of execution, if the lead is more than provided in the BOQ, nothing will be paid extra. However, if the lead is less than the BOQ, then a proportionate rate will be deducted.**
6. **The final rates on which the works is to be executed are to be approved by the competent authority based on the Financial Bids submitted by the Bidders. In case any item scheduled/non-scheduled whose rates have not been included in the BOQ, then the rate shall be decided by the competent authority for payment.**
7. The payment will be made as per the actual work done and item wise measurement basis.
8. Rate filled at any other place in the document shall not be considered.
9. Where there is a discrepancy between the words and figures, the lesser of the two will only be taken in to consideration.
10. Where there is an arithmetical discrepancy in the page total as well as grand total, the corrected total by the Employer will govern.
11. The rates quoted shall be for carrying out the work in conformity to the IS Standards and Technical Specifications and other Terms and Conditions set out in the Bid Document
12. All pages in the BOQ should be signed without omission. All corrections/over writing should be properly attested by the Bidder.
13. Change in the Quantities - If the final quantity of the work done differs from the quantity in the Bill of Quantities for the particular item/items, the rates as in the agreement for the relevant items shall be paid.
14. The Method of measurement of completed work for payment shall be in accordance with the requirement as stated in the individual section of Technical Specifications or as per CPWD Specifications.
15. The contractor shall carry out the site establishment works/temporary works at his own cost. Nothing shall be paid over and above the contract amount.
16. **The rates quoted by the bidder shall be deemed to include all costs related to leads and lifts of disposal of earth work required for the proper execution of the work, as described in the BOQ. If the actual lead and lift is more than provided in the BOQ, nothing will be paid extra and No extra payment shall be made whatsoever admissible on these accounts.**
17. **The rates quoted by the bidder shall be deemed to include all costs related to dewatering (including above nominal) and shoring (including above nominal) that is necessary for the execution of works. No extra payment shall be made whatsoever admissible on these accounts.**

Dam & Appurtenant Works

S.No.	Schedule No.	Name of Component	Approved Amount (Rs. Cr.)
1	Schedule 1	Civil Works	14.98
2	Schedule 2	Electrical Works	0.60
3	Schedule 3	HM Works	9.39
4	Schedule 4	Control Room Works	1.63
Total Cost excluding GST (in Rs. Cr.)			26.60

SCHEDULE - 1 - CIVIL WORKS

SCHEDULE - 1 - CIVIL WORKS

S.No.	Description	Quantity	Unit	SOR Rate (in Rs.)	Unit Rate after escalation @ 40% on Tender Rates or 2.4% on SOR rates (in Rs.)	Amount (in Rs.)
1	E/work in excavation of foundation trenches as per design selection in all kind of soil including Moorum soil & soil mixed with kankar. Pebbles and boulders upto 300 mm size and disposal of the same (Beyond 50 m away from the toe of dam in the country sides) within initial lead of 150M and initial lift of 1.5 M all lift as per specification and direction of E/I (WRD 5.1.8)	4303.5	Cum	203.58	208.47	897133.09
A	Extra for earth work in all kinds of soil for each additional lead of 25 M or part thereof over the initial lead as per specification and direction of E/I (WRD 5.1.20.1)	4303.5	Cum	13.27	13.59	58478.02
2	E/work in excavation of foundation trenches in hard rock (Non blasting zone) or dismantling cement concrete etc. (1:2:4) by manual labour with chisel hammer wedging, barring etc. and disposal of excavated material with initial lead of 50 M and lift of 1.5 M including making the edges straight, dressing, profiling and final preparation of surface all complete as per specification and direction of E/I (WRD 5.1.18)	1429.9	Cum	1975.85	2023.27	2893074.34
A	Extra for earth work in all kinds of soil for each additional lift of 1.0 M or part thereof over the initial lift of 1.5 M as per specification and direction of E/I (WRD 5.1.21.1)	1429.9	Cum	19.9	20.38	29137.93
B	Carriage of excavated Rock and disposal of the same beyond 1 km, but upto 2 KM lead katcha road by mechanical means including loading unloading and stacking of the same as per direction of E/I (WRD 5.1.22.3)	1429.9	Cum	138.78	142.11	203204.12
3	Grouting for dam foundation per bag cement all complete, excluding the cost of pipes, fitting nozzle and other accessories to be left embedded complete job in plugging as per drawing specification and direction of E/I (WRD 5.3.13)	728	Per Bag	393.61	403.06	293425.23
4	Providing and laying RCC M 25 in position ready mix or site batched design mix cement concrete in various component of dam foundation with appropriate grade as per design and approved quality sand of requisite F.M. (2.5 to 3.0) washed and screened excluding cost of shuttering or form works as well as of reinforcement its cutting, bending, binding, and placing but including necessary tools and plants vibrating curing royalty all taxes etc. complete job as per specification and direction of E/I (BCD 5.3.26.1.1)	2848.86	Cum	5346.07	5474.38	15595729.90
5	Providing and laying R.C.C.M-20 with nominal mix of (1:1.5:3) in various component of dam foundation with approved quality of 40mm graded coarse aggregate of require grade as per design and approved quality sand of requisite F.M. (2.5 to 3.0) washed and screened excluding cost of shuttering or form works as well as of reinforcement its cutting, bending, binding, and placing but including necessary tools and plants vibrating curing royalty all taxes etc. complete job as per specification and direction of E/I (BCD 5.3.1.1)	400.75	Cum	4961.73	5080.81	2036135.22
6	Providing and laying R.C.C.M-25 with nominal mix of (1:1:2) in various component of dam in super structure with approved quality of 20mm graded coarse aggregate of required grade as per design and approved quality sand of requisite F.M. (2.5 to 3.0) washed and screened excluding cost of shuttering or form works as well as of reinforcement its cutting, bending, binding, and placing but including necessary tools and plants vibrating curing royalty all taxes etc. complete job pier s as per specification and direction of E/I (BCD 5.3.26.2.1)	1245.00	Cum	6058.56	6203.97	7723936.97

7	Providing rough dressed random rubble stone masonry in cement mortar (1:4) in foundation with approved quality of coarse sand of requisite F.M (2.5 to 3.0) washed and screened with raking out joint curing scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E/I (PA 5.2.28)	156	Cum	2739.68	2805.43	437647.44
8	Providing rough dressed random rubble stone masonry in cement mortar (1:4) in super structure with approved quality of coarse sand of requisite F.M (2.5 to 3.0) washed screened with ranking out joint curing scaffolding and its removal wherever required including royalty and all taxes etc. complete job as per specification and direction of E/I (PA 5.2.31)	184.69	Cum	2906.96	2976.73	549771.72
9	Providing and laying P.C.C or R.C.C.M-35 with ready design mix in deck slab and super structure with approved quality of (20mm) graded coarse aggregate of required grade as per design and approved quality sand of requisite F.M (2.5 to 3.0) washed and screened excluding cost of shuttering or form works as well as of reinforcement its cutting, bending, binding, and placing but including necessary tools and plants vibrating curing royalty all taxes etc. complete job piers as per specification and direction of E/I (BCD 5.3.26.2.3)	1354.82985	Cum	6285.68	6436.54	8720411.54
10	Providing and laying R.C.C.M-15 with nominal mix of (1:2:4) in various component of dam foundation with approved quality of (20mm to 40mm) graded coarse aggregate of required grade as per design and approved quality sand of requisite F.M (2.5 to 3.0) washed and screened excluding cost of shuttering or form works as well as of reinforcement its cutting, bending, binding, and placing but including necessary tools and plants vibrating curing royalty all taxes etc. complete job as per specification and direction of E/I (BCD 5.3.1.3)	1021.2	Cum	4503.43	4611.51	4709276.38
11	Providing and laying R.C.C.M-15 with nominal mix of (1:2:4) in various component of dam in super structure with approved quality of (20mm to 40mm) graded coarse aggregate of required grade as per design and approved quality sand of requisite F.M (2.5 to 3.0) washed and screened excluding cost of shuttering or form works as well as of reinforcement its cutting, bending, binding, and placing but including necessary tools and plants vibrating curing royalty all taxes etc. complete job as per specification and direction of E/I (BCD 5.3.2.2)	204.11	Cum	5626.21	5761.24	1175926.50
12	Providing shuttering & Centering including strutting propping etc. after use in super structure position of various component of dam work with water proof ply 12 mm thick as per specification and direction of E/I (BCD 5.3.17.20)	15384.36	Sqm	504.12	516.22	7941697.09
13	Supplying, fitting and fixing in position true to line and level elastomeric bearing conforming to IRC: 83 (Part-II) section IX and clause 2005 of MoRTH specifications complete including all accessories as per drawing and Technical Specifications. (RCD 13.14)	702000.00	CuCm	0.71	0.73	510382.08
14	Drainage Spouts complete as per drawing and Technical specification (RCD 14.9)	326.00	Nos	797	816.13	266057.73
15	Providing T.M.T reinforcement (tor steel) as per approved design drawing, removal of rust, cutting, bending, binding, including supplying annealed wire placing M.S. rods in position all complete as per specification and direction of E/I (RCD 13.6)	771.24	MT	71410	73123.84	56395895.63
16	Providing 12 mm thick cement plaster (1:3) with approved quality of sand of requisite F.M (2.5 to 3.0) washed and screened including curing scaffolding wherever required and its removal royalty all taxes etc. complete job as per specification and direction of E/I (RCD 13.3)	1576.39	Sqm	985	1008.64	1590010.01

17	Drilling by wagon drill machine in hard rock of all kind of grout holes (48 mm dia.) of more than 5 metre depth (for consolidation grouting) all complete including washing of hole for period not exceeding 10 minutes per hole as per specification and direction of E/I (WRD 5.2.9)	220	M	512.13	524.42	115372.65
18	Drilling NX (53mm to 75mm) size dia. drainage holes upto 4 m depth in hard rock below acceptable rock foundation grade with PC drill in bucket portion including proper washing all complete job as per specification and drection of E/I (WRD 5.2.7)	413	M	4066.47	4164.07	1719758.96
19	Supplying fitting and fixing copper strip of 16 gauge of approved quality (with 99 % purity) in expansion joint complete job as per specification and direction of E/I (WRD 5.8.3)	14.19	KG	458.89	469.90	6667.93
20	Supplying fitting and fixing in position Rubber seal (water stop) of aproved quality for construction joints complete job as per drawing specification and direction of E/I (WRD 5.8.4)	6.5	PER M	108.63	111.24	723.04
21	Providing and fixing in position Bitumen filter (Bitumen, Cement, and Sand) in construction joint in dam and its allied work complete job as per drawing specification and direction of E/I (WRD 5.8.6)	1.12	Per cum width/ cm depth/ 100m	223.17	228.53	255.95
22	Providing M.S Steel angle (50 mm, 50mm, 6 mm) for railing point stair 250 mm each embedded in concrete including supplying salting melding and applying, priming cost of approved quality etc. all complete as per drawing specification and direction of E/I	0.203	PER MT	89944	92102.66	18696.84
23	Supplying, Fitting anf fixing M.S. flat with M.S. flat made size (20 mm, 6mm) as per approved as per design and drawing with joints continuous filled welded and finshed smooth in stair as per specification and direction of E/I	76	PER KG	89.94	92.10	6999.49
24	Providing G.I pipe hand rail with 40mm G.I pipe of I.T.C or equivalent make properly fitted and fixed In position with all complete as per building specification and direction of E/I	26.6	PER MT	319.1	446.74	11883.28
25	Supplying, Fitting and fixing of 50mm thick M.S. chequered plate in all gate grooves as per drawing specification and direction of E/I	28.7	PER MT	89944	92102.66	2643346.23
26	Supplying, Fitting and Fixing Collapsible gates of approved size and make properly fabricated with vertical double channel (20mm,10mm,2mm) at 100mm centres and braced with M.S. flat diagonals 20mm, 3mm with top and bottom rails of T iron 40mm, 40mm, 6mm with 38mm dia. steel pulleys complete with bolts, nuts locking arrangement stoppers handles including applying a priming coat of red lead paint carriage hoisting and taxes all complete as per buildings specification and direction of E/I (BCD 5.5.14)	15.75	M²	5537.11	5670.00	89302.51
27	Supplying, Fitting and Fixing 250mm, 20mm, 6mm L-type M.S. clamp properly fishtailed including making holes and setting the same in (375mm,125mm,75mm) cement concrete block (1:2:4) with cost of all labour and material and taxes as per building specification and direction of E/I (BCD 5.5.8)	58	Each	85.88	87.94	5100.58
28	Supplying, Fitting and Fixing fully glazed steel doors and windows or ventilation of standard rolled 'Z' and mullion steel section and size as per IS-1038 joints met and welded with 100mm,16mm,3mm M.S. Lugs fixed in cement concrete (1:2:4) block (15cm,10cm,10cm) size including cost of oxidised iron fitting with hinges, handle, per steps catch spring 3mm thick plain glass panes with aluminium beads and inner frame, fixed with lugs with 20mm longs 6.3mm G.I.C counter sunk machine screw and nuts and applying a cost of red lead paint carriage to works site hoisting and placing in position in all storeys and taxes all complete as per building specification and direction of E/I (BCD 5.5.18)	26	M²	4476.55	4583.99	119183.67

29	Providing Cement washing two coats with ordinary Portland cement including cleaning the surface thoroughly scaffolding, curing, washing the wall and floor and taxes all complete as per building specification and direction of E/I	290.39	M²	26.95	27.60	8013.83
30	Supplying and laying good quality of stone metal filter (20mm to 36mm size) in the rock toe, heel trenches, toe drain as per design and drawing including the cost of carriage all complete as per specification and direction E/I	159.25	M³	2398	2455.55	391046.66
31	Providing 25mm thick cement plaster (1:4) with approved quality of sand of requisite F.M. (2.5 to 3) washed and screened including curing scaffolding wherever required and its removal royalty all taxes etc. complete job as per specification and direction of E/I	60	M²	258.87	265.08	15904.97
32	Dismantling Pucca boulder masonry work including stacking serviceable material in countable stack within 15m lead and disposal of the unserviceable material with all lead complete as per building specifications and direction of E/I	57.512	M³	109	111.62	6419.26
33	Supplying, fitting and fixing M.S. (75mm,75mm,6mm) M.S. angle hoisting in steps welded with 6mm dia. And 75mm long M.S. anchorage fixed in concrete steps at the time of casting including taxes all complete as per direction of E/I	266.3	MT	89944	92102.66	24526937.29
34	Supplying, fitting and fixing J.lock of 10mm dia. M.S. bar 250mm long bent to require size in R.C.C slab beams at the time of casting in wearing coat all complete as per specification and direction of E/I	1862	Each	14.8	20.72	38580.64
35	Supplying, fitting and fixing 75mm dia. C.I.R.W.D Pipe with necessary strips, spikes, bends, sheos, etc. including cost of carriage all complete as per specification and direction of E/I	229.5	M	129	180.60	41447.70
36	Supply fitting and fixing G.I. pipes and its accessories for grouting in concrete in plugging of construction sluice as per specification and direction of E/I					
A	40 mm dia pipe	61	M	108.32	151.65	9250.53
B	20 mm dia pipe	100	M	75.824	106.15	10615.36
C	12 mm dia pipe	90	M	50	70.00	6300.00
37	Fittings					
A	40 mm dia elbow	8	each	50	70.00	560.00
B	Reducer socket 40 mm to 20 mm	24	each	50	70.00	1680.00
C	Grout box	288	each	400	560.00	161280.00
D	Providing and laying 300 mm dia fluped drainage pipe	12	M	120	168.00	2016.00
E	16 mm dia wire rope	16	M	40	56.00	896.00
38	Grouting of Anchor holes about 3 m depth with cement mortar 1:3 complete as per drawing designspecifiacion including materials and labours all complete job as per direction of E/I	111	Per Hole	900	1260.00	139860.00
39	Supplying fabrication at site, welding and embedment of half around 300 mm dia M.S. pipe of thickness 3.15 mm covering over the drainage holes and porous concrete in the spillway bucket as per specification and direction of E/I	126	M	5359	5487.62	691439.62
40	Supplying fitting and fixing and welding at site and embedment of 150 mm dia pipe in bucket portion as per drawing, specification and direction of E/I	72	M	3605.25	3691.78	265807.87
41	Supply 150 mm dia G.I. pipe for drainage as per specification and direction of E/I	119.85	M	1346.6	1885.24	225946.01
42	Labour charges for cutting, laying, fitting, fixing and joint of 150 mm dia G.I pipe as per specification and direction of E/I	94.85	M	16	22.40	2124.64
43	Dismantling of plain cement concrete or lime concrete work including stacking serviceable material in countable stacks within 15m lead and disposal of unserviceable materials with all leads all complete as per direction of E/I	780	M²	617.9	632.73	493529.09
44	Carriage of different construction materials beyond the lead already provided in the schedule from different places to dam site of N.K Dam which is to be used in construction with loading , unloading and stocking all complete as per specification and direction of E/I					
A	Cement steel	739.89	MT	2257	2311.17	1709999.00

B	Boulder from quarry site to dam site	120	M³	307.9	315.29	37834.75
C	Metal 40 mm and above from quarry to dam site left bank.	1750	M³	446	456.70	799232.00
D	Stone chips 40 mm down	4141.93	M³	446	456.70	1891636.88
E	Sand	3149.19	M³	307.9	315.29	992907.00
45	Providing and applying tack coat with bitumen emulsion using emulsion pressure distribut or at the rate of 0.20kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom.	1107.23	Sqm	11	11.26	12471.78
46	Providing and laying bituminous macadam with 100-120TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder, transported to site, laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction. Rate for grading II(19mm nominal size)	83.04	Cum	6295	6446.08	535294.57
				Total Amount		14,97,83,653.53
				Say (in Rs. Cr.)		14.98

CALCULATION BASED ON SOR 2022 RATES

BASE YEAR - 2011-12 = 100			
S.No	Year	Month	WPI Index
1	2022	Jan	143.8
2	2022	Feb	145.3
3	2022	Mar	148.9
4	2022	Apr	152.3
5	2022	May	155
6	2022	Jun	155.4
7	2022	Jul	154
8	2022	Aug	153.2
9	2022	Sep	151.9
10	2022	Oct	152.9
11	2022	Nov	152.5
12	2022	Dec	150.5

Base Year &
Month for
SOR2022

BASE YEAR - 2011-12 = 100			
S.No	Year	Month	WPI Index
1	2026	Jan	157.6
2	2026	Feb	158.2
3	2026	Mar	160.8
4	2026	Apr	
5	2026	May	
6	2026	Jun	
7	2026	Jul	
8	2026	Aug	
9	2026	Sep	
10	2026	Oct	
11	2026	Nov	
12	2026	Dec	

Variation as on Jan 2026 wrt to 2022 month	Variation as on Feb 2026 wrt to 2022 month	Variation as on Mar 2026 wrt to 2022 month
9.6	10.0	11.8
8.5	8.9	10.7
5.8	6.2	8.0
3.5	3.9	5.6
1.7	2.1	3.7
1.4	1.8	3.5
2.34	2.73	4.42
2.9	3.3	5.0
3.8	4.1	5.9
3.1	3.5	5.2
3.3	3.7	5.4
4.7	5.1	6.8



सत्यमेव जयते

आर्थिक सलाहकार का कार्यालय

OFFICE OF THE ECONOMIC ADVISER

DEPARTMENT FOR PROMOTION OF INDUSTRY AND INTERNAL TRADE






एक काम स्वच्छता भी ओर

Wholesale Price Index (WPI)

Monthly Wholesale Price Index

Name of Commodity : All commodities

Type : Group Item

Weight : 100

Base Year : 2011-12 = 100

Month/Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2022	143.8	145.3	148.9	152.3	155	155.4	154	153.2	151.9	152.9	152.5	150.5

1. Figure 0 may be treated as index for particular item not-available.

2. Figures for the latest two months are provisional. Latest two months are to be reckoned with reference to the latest available figures.

3. (NR : Not Released) : Please refer official Press Release for more information.



सत्यमेव जयते

आर्थिक सलाहकार का कार्यालय

OFFICE OF THE ECONOMIC ADVISER

DEPARTMENT FOR PROMOTION OF INDUSTRY AND INTERNAL TRADE






एक काम स्वच्छता भी ओर

Wholesale Price Index (WPI)

Monthly Wholesale Price Index

Name of Commodity : All commodities

Type : Group Item

Weight : 100

Base Year : 2011-12 = 100

Month/Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2026	157.6	158.2	160.8									

1. Figure 0 may be treated as index for particular item not-available.

2. Figures for the latest two months are provisional. Latest two months are to be reckoned with reference to the latest available figures.

3. (NR : Not Released) : Please refer official Press Release for more information.

CALENDER YEAR			
BASE YEAR - 2011-12 = 100			Escalation %age wrt year
S.No	Year	WPI Index	
1	2024	154	
2	2023	151.3	
3	2022	151.3	
4	2021	135	
5	2020	121.8	
6	2019	121.2	
7	2018	118.9	
8	2017	114.1	
9	2016	110.3	
10	2015	110.3	
11	2014	114.8	
12	2013	111.1	

FINANCIAL YEAR			
BASE YEAR - 2011-12 = 100			Escalation %age wrt year
S.No	Year	WPI Index	
0	2025-26		39.79
1	2024-25	154.9	
2	2023-24	151.4	
3	2022-23	152.5	
4	2021-22	139.4	
5	2020-21	123.4	
6	2019-20	121.8	
7	2018-19	119.8	
8	2017-18	114.9	
9	2016-17	111.6	
10	2015-16	109.7	
11	2014-15	113.9	
12	2013-14	112.5	
13	2012-13	106.9	

Say
40.00

S.NO.	Item Des	Unit	N1	N2	L	B	H	Qty	Remark
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A.8	Steel Reinforcement											
	Item description	Dia	Spacing	No of Bridge	Shape	No. of Item	No. of Bar	Cut Length	Total Length	Unit Wt	Total Wt	Remark
a	Main Girder (Corner)	12	0.2	9		2	11	18.500	407.00	0.89	3,252.74	
		16	0.4	9		2	48	1.578	151.47	1.58	2,151.18	outer side
		16	0.4	9		2	48	1.931	185.41	1.58	2,633.22	inner side
	4 legged ring	16	0.4	9		2	96	7.360	1,413.12	1.58	20,069.13	
	face bar	12	0.15	9		2	12	18.500	444.00	0.89	3,548.45	
	bottom Support	16	0.2	9		2	188	1.000	376.00	1.58	5,339.95	
	Bottom Dist. bar	32		9		2	12	18.500	444.00	6.31	25,226.75	
	Bottom main bar	16	0.2	9		2	94	2.524	474.56	1.58	6,739.72	
									-	-	-	

b	Main Girder (Central)	16	0.4	9		2	48	1.812	173.96	1.58	2,470.60		
		16	0.4	9		2	48	1.312	125.96	1.58	1,788.91		
		16	0.4	9		2	48	2.350	225.60	1.58	3,203.97		
		16		9		2	12	18.500	444.00	1.58	6,305.69		
		16		9		2	4	18.500	148.00	1.58	2,101.90		
		16	0.4	9		2	48	1.200	115.20	1.58	1,636.07		
		32		9		2	12	18.500	444.00	6.31	25,226.75		
		32	0.2	9		2	94	3.524	662.55	6.31	37,644.08		
		16	0.4	9		2	96	6.760	1,297.92	1.58	18,433.06		
	face bar	12	0.15	9		2	12	18.500	444.00	0.89	3,548.45		
c	Slab (Removable Deck Slab)								-	-	-		
		Main Bars	12	0.12	9		10	52	1.620	842.40	0.89	6,732.46	
		Distribution Bars	12	0.12	9		10	30	2.950	885.00	0.89	7,072.92	
d	Slab (Above Longer Cross Girder)	12	0.14	9		1	268	2.350	629.80	0.89	5,033.36		
		12	0.14	9		1	38	18.450	701.10	0.89	5,603.19		
e	Slab (Above Shorter Cross Girder)	12	0.25	9		1	150	1.200	180.00	0.89	1,438.56		
		12	0.25	9		1	12	18.450	221.40	0.89	1,769.43		
f	Hook	36		9		1	36	1.150	41.40	7.99	2,977.07		
g	Cross Girder-Longer								-	-	-		
		16	0.25	9		6	12	3.580	257.76	1.58	3,660.71		
		20		9		6	6	2.550	91.80	2.47	2,037.41		
h	Cross Girder-Shorter								-	-	-		
		16	0.25	9		6	7	3.580	150.36	1.58	2,135.41		
		20		9		6	3	1.400	25.20	2.47	559.29		
		16		9		6	3	1.400	25.20	1.58	357.89		
i	End Cross Girder								-	-	-		
		16	0.25	9		2	36	2.400	172.80	1.58	2,454.11		
		20		9		2	3	8.750	52.50	2.47	1,165.19		
		16		9		2	3	8.750	52.50	1.58	745.61		
									-	-	-		
									-	-	-		
k	Parapet Wall	12	0.3	9		2	63	2.560	322.56	0.89	2,577.90		
		12	0.3	9		2	10	18.500	370.00	0.89	2,957.04		
				</									

SCHEDULE - 2 - ELECTRICAL WORKS

SCHEDULE - 2 - ELECTRICAL WORKS

S.No.	Description	Unit	Quantity	Unit Rate (Supply) (in INR)	Supply Amount	Unit Rate (Erection) (in INR)	Erection Amount	Total Amount	Total Amount incl. Overhead
A.	Supply, installation, testing (Factory Acceptance Test (FAT) and Site Acceptance Test (SAT) as Precommissioning and Commissioning of 11/0.433 kV, 315 KVA, 3-Phase, Oil Type Transformer with all architectural and civil work comprising equipment and substation structure foundation, FRP Fencing, gates, gravels, cable trenches, storm water drain system as per system requirement	Nos.	1	6,80,011.81	680011.81	41111.69	41111.69	721123.50	908615.61
B	Supply, installation, testing (Factory Acceptance Test (FAT) and Site Acceptance Test (SAT) as Precommissioning and Commissioning of 7-Way Distribution Feeder Pillar with 2 Nos. MCCB, 4 Pole, 3 Phase, 415 Volt, 400 Amps. for Incoming and 5 Nos. outgoing MCCB 4 Pole, 3 Phase, 415 Volt, 100 Amps. rating type suitable for outdoor installation, in accordance with Technical Specifications/Project Requirement.	Nos.	1	15936.08	15936.08	0.00	0	15936.08	20079.46
C	Design, Supplying, installing, testing of factory fabricated ready made Three phase APFC Panel Cubical Panel fabrication should be type tested as per IEC 61921, 61439:1&2 Capacitor Duty Contactor for switching as per following Steps Incomer Switch of MCCB type Icu=Ics=50KA at 400/440 Volts, with Microprocessor based OC, SC, internal earth fault protection Incomer Switch of MCCB type Icu=Ics=50KA at 400/440 Volts, with Microprocessor based OC, SC, internal earth fault protection, Copper tinned insulated Busbar, Cubical panel should be indoor type with IP 43 and IK 10, Metalized polypropylene filmtype 3-phase 550Volt Capacitor, De tuning Reactor for each capacitor, Panel having Short Circuit and Overload protection, Each step Capacitor having suitable MCCB with Sc, OL, internal earth fault relay, Each stage having Stage Contactor (Capacitor load rating), PF regulator master controller having suitable steps with LCD display, Rs 485 Communication port, Indication LED Lamps for main incomer and ON-OFF for each capacitor bank, MS Chancel for Floor mounting, Cable entry as per site 75KVAR (25KVAR X 2 Nos and 10KVAR X 2 Nos, 5KVAR X 1 Nos. Steps)	Nos.	2	55000	110000.00	0.00	0	110000.00	138600.00
D	Supply, installation, testing and commissioning of 320 kVA, 3 Phase, 415V AC, Silent DG Set (CBCV-IV+Model) comprising of Engine, with minimum 490 BHP, at 1500 RPM, coupled with alternator of same make mounted on a common base frame complete with; a) AMF control panel b) Fuel tank c) Battery & leads d) Silencer – Residential e) AVM pads f) First Fill of lube oil g) Acoustic enclosure h) Aluminium Power cable (3.5 Core, 300 sq.mm. cable) j) Transportation upto Site k) Commissioning l) earthing	Nos.	1	1590000	1590000.00	0.00	0	1590000.00	1590000.00
E	Street Lighting								
1	Supply and erection of 3 core PVC copper insulated and Sheathed Circular flexible wire of size 2.50 sq.mm. (80/0.20mm)	Mtr.	240	130	31200.00	0.00	0	31200.00	35864
2	Supply and erection of Galvanized Iron pipe 65 mm dia on flushed for wiring purposes including bends inspection boxes etc. where necessary and painting as required	Nos.	40	474	18960.00	0.00	0	18960.00	21795
5	Supply and erection of 3.5 Core Armoured 25 Sq. mm under ground cable ,loose in existing pipe or trenches complete with necessary connections	Mtr.	368.55	280	103194.00	0.00	0	103194.00	118622
6	Supply and erection of copper lugs of 25sqmm size including crimping etc.	Nos.	320	25	8000.00	0.00	0	8000.00	10080.00
7	Supply and erection of HDPE pipe 90/75 mm Outer dia/Inner dia laid 1 Mtr below ground level including digging or trenchless boring and refilling of earth including cost of suitable size socket/coupler for HDPE Pipe including cost of labour and material required to complete the job in all respects upto the entire satisfaction of the engineer-in-charge of the work.	Nos.	368.55	342	126044.10	0.00	0	126044.10	158815.57

8	Supply and erection of Hot Dip Galvanized octagonal pole of 3 mm thickness 7 Mtr. Long pole with top dia 70 mm and bottom dia 130 mm with base plate of size 220 x 220 x 12 mm, including cost of nut and bolts and all accessories(including provisions of camera, Wi-Fi unit, speaker etc.at later stage) as supplied by the manufacture including cost of foundation accessories etc. the foundation bolts as per manufacturer design should be hot dipped galvanized pole complete with door locking arrangement,Terminal plate consisting of 2 nos. 100 A, 4 pole natural links inclding connection etc. with suitable connecting arrangement for 2 nos. MCBs/ kit- kat including cost of RCC 1:1.5:3 for foundation of size 0.7 m x 0.7 m x 1.8 m with minimum 8 nos. 12 mm dia longitudinal MS reinforcement rods with rings of 8 mm dia not more than 200 mm C.C. for fixing the pole with all labour & material required to complete the job in all respect upto the entire satisfaction of Engineer - In - Charge of the work.	Nos.	40	11730	469200.00	5400.00	216000	685200.00	787637.40
9	Supply, installation, Testing & commissioning of LED type IP66 and above ,72W Street Light Fitting as per technical specification enclosed. With Free Replacement Guarantee --- 5 years as per the specification.	Nos.	40	5157	206280.00	0.00	0	206280.00	237118.86
10	Supply and erection of terminations for octagonal poles consisting of 1no 4 pole 40 A connector with brass/copper links,2 no 10A , SP MCB 10 KA mounted on 5 mm thick bakelite sheet duly fixed inside of the pole	Nos.	40	2989.5	119580.00	79.38	3175.2	122755.20	154671.55
12	SITC of 20.00 Mtr long High Mast manufactured from B.S.E.N. 10025 or equivalent grade , Top Dia 150mm, bottom dia 410mm,	Nos.	4	198400	793600.00	105250.00	421000	1214600.00	1396182.70
13	Supply & Erection of LED flood light 200 watt with secondary optic madeout of pressure die cast housing & heat sink in alum. Extraction & IP 66 protection complete in all respect. (1 No. High Mast x 6 No. Each)	Nos.	4	14500	58000.00	0.00	0	58000.00	66671.00
	Earthing								
1	Supplying & erecting earth pit of minimum bore dia.150mm size approved make Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 50mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover.(approved make OEM has to submit test certificate) & having back filling compound of (B) Inner chemical (CCM Compound)- Resistivity:- 0.2 W/ meter testing as per IEC 62561-2017, Voltage drop:- < 1 volt at no load & dry form, Sulphar content:- <2%(C) Back fill Compound :- Earthing compound should be capable to retain moisture for long time Necessary test report must be submitted. (a) For Electrical Installation up to 440V in normal soilLength of pipe - 1 MtrBack filling compound - 1 Nos Bag of 15 Kg. [Make-As per Approval of Engineer-in-charge]								
a	(a) For Electrical Installation up to 440V in normal soil Length of pipe - 1 Mtr Back filling compound - 1 Nos Bag of 15 Kg. [Make-As per Approval of Engineer-in-charge]	Nos.	44	0	0.00	0.00	0	0.00	0.00
b	(b) For Electrical installation up to 11 KV in normal soil. Length of Pipe : 2.00 mtrs Back filling Compound :1 no. Bag of 25 Kg. [Make-As per Approval of Engineer-incharge]	Nos.	6	0	0.00	0.00	0	0.00	0.00
c	(c) For Electrical Installation covering Transformer Neutrals, Lightning arrester Earthing, A.C.Plant & Sensitive Computer System(like Automation, SCADA) i.e independent Earthing in normal soil. Length of Pipe : 40 mm Dia 4.5 mtrs long	Nos.	5	2243.52	11217.60	691.28	3456.4	14674.00	16867.76
2	Supplying and laying of 25 mm x 5 mm G.I. Strip at 0.50 metre below ground level as strip earth electrode including soldering etc. as required	Mtr	120	115	13800.00	0.00	0	13800.00	15863.10
	Dam Body Electrification								
1	Supply, installation, Testing & commissioning of SMD Mid Power LED type IP66 and above, batten type integrated light fixture made from polycarbonate /extruded aluminium powder coated housing with in built driver, 30W Flood Light Fitting as per technical specification enclosed. With Free Replacement Guarantee --- 5 years as per the specification.	Nos.	30	1741.5	52245.00	87.82	2634.6	54879.60	63084.10
2	Supply and erection of 4 Core Armoured 16 Sq. mm under ground cable ,loose in existing pipe or trenches complete with necessary connections	Mtr.	368.55	221	81449.55	0.00	0	81449.55	93626.26
3	Providing & laying approved make Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930-II) with necessary connecting accessories of same material at required depth in existing trench for laying of cable. below ground / road surface for enclosing cable,(A)50 mm outer dia	Mtr.	300	55	16500.00	0.00	0	16500.00	18966.75
	Surge Protection								
1	Providing and fixing of lighting conductor finial , made of 25mm clia 300mm long , G.I. tube, having single prong at top, with 85mm dia 6mm thick G.I. base plate including holes	Nos.	7	334	2338.00		0.00	2338.00	2338.00
2	Providing and fixing G.I. tape 20mm x 3mm thick on parapet or surface of wall for lightning conductor complete as required.(for Horizontal run).	Mtr.	70	38	2660.00		0.00	2660.00	2660.00
F	Fire & Safety Arrangement								

1	Dry chemical type fire extinguisher 5 Kgs	Nos.	4	3511.73	14046.92	0.00	0.00	14046.92	17699.12
2	CO2 type fire extinguisher 10 Kgs	Nos.	4	15425	61700.00	0.00	0.00	61700.00	77742.00
3	Fire Buckets (Capacity)- 10 Ltrs	Nos.	8	72	576.00	0.00	0.00	576.00	725.76
4	Premier Insulating Mat "B" Class as per IS:15652:2006	Sq.Mtr.	15	3330	49950.00	0.00	0.00	49950.00	62937.00
Grand Total (in Rs.)									6017262.42
								Say (in Rs. Cr.)	0.60

SCHEDULE 3- HYDRO MECHANICAL WORKS

SCHEDULE 3- HYDRO MECHANICAL WORKS

Sl.No.	Articles or Services	Qty/No.	Unit	Total Weight (MT)/ Length (m)/ Nos.	Base Unit Price (per ton) or (m) -INR	Unit Price including Escalation 16% on SoR rates (2023-2024) (INR)	Amount- INR
1	Construction Sluice Gates with Lifting Beam						
1.1	Gate						
	Design, fabrication, supply, erection, testing and commissioning of fixed wheel type vertical lift gate consisting of skin plate, horizontal and vertical girders, wheels, stiffeners, lifting brackets, guide rollers/shoes, teflon clad rubber seals with all accessories for construction sluice vent including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint, seal fixing and all other ancillary operations complete as per specifications and approved drawings.	2	Set	10	1,47,500	1,71,100	17,11,000
1.2	2nd Stage Embedded Parts						
	Design, fabrication, supply, erection and commissioning of embedded parts consisting of sill beam, wheel tracks, seal seats, guide rails including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings.	2	Set	5	1,68,100	1,94,996	9,74,980
1.3	Lifting beam						
	Design, fabrication, supply, erection, testing and commissioning of automatic lifting beam with all accessories for handling, lowering and lifting of gate including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and two coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings.	1	Set	1.0	1,69,200	1,96,272	1,96,272
2	Low Level Sluice Gates with Hydraulic Hoist						
2.1	Gate						
2.1.1	Design, fabrication and supply of bonnet cover for Low Level Sluice Gate comprising MS plate, stiffeners, lifting brackets, rubber seals/gaskets and all associated accessories, including cost of all materials, machinery, labour, cutting, aligning, welding, finishing and cleaning; application of one coat of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint; seal fixing and all other ancillary works complete as per technical specifications and approved drawings.	2	Set	6	1,76,200	2,04,392	12,26,352
2.1.2	Teflon clad solid double stem rubber seal for (top and side) and wedge type rubber seal for bottom to be installed in already fabricated gates , as per technical specifications and approved drawings.	2	Set	25	3,000	-	74,910
2.1.3	CSK bolts and M16 Hex head bolt with nut and neoprene washer for Sl.no. 2.1.2 as per technical specifications and approved drawings.	2	Set	600	L.S.	-	1,00,000
2.1.3	Erection, Testing & Commissioning of already fabricated fixed wheel vertical lift type gates for a clear vent size of 2.0 m x 3.0 m with bonnet cover assembly with seals (top, side & bottom) and all other ancillary operations complete as per specifications and approved drawings.	2	Set	L.S.	4,11,000	-	8,22,000
2.1.4	Mandatory spare parts	1	Set	L.S.	42,000	-	42,000
2.2	Double Acting Hydraulic Hoist						
2.2.1	Design, engineering, fabrication, assembly, shop testing, shop & field painting, supply of Double Acting Hydraulic Cylinders (50-T capacity) complete with Hydraulic Power Unit (HPU) and Local Control Panel (LCP) including all associated components and accessories such as cylinder barrel, piston rod, seals, mountings and glands/ stuffing box for bonnet cover, gate position indicator system, limit switches, piping/tubing, valves, pressure gauges, sensors, instrumentation, electrical wiring, and all necessary auxiliaries required for safe and efficient operation of gates, complete in all respects as per approved drawings and technical specifications.	2	Set	L.S.	45,00,000	-	90,00,000
2.2.2	Erection, Testing & Commissioning of double acting Hydraulic cylinders of 50 T tentative capacity including all the accessories such as cylinder shell, piston rod and their mountings on gate, gate position indicator and limit switches for operation of gates. Complete in all respects as per the technical specifications and drawings	2	Set	L.S.	13,50,000	-	27,00,000
2.2.3	Mandatory spare parts	1	L.S.	L.S.	-	-	2,70,000
3	Irrigation Sluice Gate with Hydraulic Hoist						

3.1 Gate							
3.1.1	Design, fabrication and supply of bonnet cover for Irrigation Sluice Gate comprising MS plate, stiffeners, lifting brackets, rubber seals/gaskets and all associated accessories, including cost of all materials, machinery, labour, cutting, aligning, welding, finishing and cleaning; application of one coat of zinc rich epoxy primer and three coats of cold applied coal tar epoxy paint; seal fixing and all other ancillary works complete as per technical specifications and approved drawings.	4	Set	12	1,76,200	2,04,392	24,52,704
3.1.2	Teflon clad solid stem rubber seal for (top and side) and wedge type rubber seal for bottom to be installed in already fabricated gates , as per technical specifications and approved drawings.	4	Set	50	2,500	-	1,24,300
3.1.3	CSK bolts and M16 Hex head bolt with nut and neoprene washer for Sl.no. 3.1.2 as per technical specifications and approved drawings.	4	Set	536	L.S.	-	90,000
3.1.3	Erection, Testing & Commissioning of already fabricated fixed wheel vertical lift type gates for a clear vent size of 2.0 m x 3.0 m with bonnet cover assembly with seals (top, side & bottom) and all other ancillary operations complete as per specifications and approved drawings.	4	Set	L.S.	5,13,500	-	20,54,000
3.1.4	Mandatory spare parts	1	Set	L.S.	-	-	51,500
3.2 Double Acting Hydraulic Hoist							
3.2.1	Design, engineering, fabrication, assembly, shop testing, shop & field painting, supply of Double Acting Hydraulic Cylinders (15-T capacity) complete with Hydraulic Power Unit (HPU) and Local Control Panel (LCP) including all associated components and accessories such as cylinder barrel, piston rod, seals, mountings and glands/ stuffing box for bonnet cover, gate position indicator system, limit switches, piping/tubing, valves, pressure gauges, sensors, instrumentation, electrical wiring, and all necessary auxiliaries required for safe and efficient operation of gates, complete in all respects as per approved drawings and technical specifications.	4	Set	L.S.	12,75,000	-	51,00,000
3.2.2	Erection, Testing & Commissioning of double acting Hydraulic cylinders of 15 T tentative capacity including all the accessories such as cylinder shell, piston rod and their mountings on gate, gate position indicator and limit switches for operation of gates. Complete in all respects as per the technical specifications and drawings	4	Set	L.S.	3,82,500	-	15,30,000
3.2.3	Mandatory spare parts	1	L.S.	L.S.	-	-	1,53,000
4 Emergency gate (for Low Level and Irrigation Sluice gate) with Lifting Beam and Gantry Crane							
4.1 Gate							
4.1.1	Erection, Testing & Commissioning of already fabricated vertical lift Slide type gates for a clear vent size of 3.32 m x 5.0 m with seals (top, side & bottom) and all other ancillary operations complete as per specifications and approved drawings.	1		L.S.	6,89,000	-	6,89,000
4.1.2	Teflon clad solid double stem rubber seal for (top and side) and wedge type rubber seal for bottom to be installed in already fabricated gates , as per technical specifications and approved drawings.	1	Set	19	3,000	-	56,826
4.1.3	CSK bolts and M16 Hex head bolt with nut and neoprene washer for Sl.no. 4.1.2 as per technical specifications and approved drawings.	1	Set	324	L.S.	-	54,000
4.1.4	Mandatory Spare Parts	1	Set	L.S.	-	-	68,900
4.20 2nd Stage Embedded Parts							
4.2.1	Fabrication, supply, erection and commissioning of embedded parts consisting of sill beam, wheel tracks, seal seats, guide rails including cost of all materials, machinery, labour, cutting, aligning, welding, anchoring, finishing, cleaning, applying one coat of zinc rich epoxy primer and four coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings.	5	Set	30	2,32,800	2,70,048	81,55,571
4.2.2	Erection, Testing & Commissioning of 2nd stage embedded parts such as sill beam, wheel tracks, side guides, anchor bolts, nuts & washers, support angles etc. as per technical specifications	6	Set	L.S.	-	-	29,36,000
4.3 Lifting beam							

4.3.1	Design, fabrication, supply, erection, testing and commissioning of automatic lifting beam with all accessories for handling, lowering and lifting of gate including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and two coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings.	1	Set	2	2,26,000	2,62,160	5,24,320
4.3.2	Mandatory Spare Parts	1	Set	L.S.	-	-	15,750
4.4 Gantry crane for Emergency Sluice gate and Intake bulk head Gate							
4.4.1	Design, fabrication, supply, erection, testing and commissioning of 45 T capacity Class - II type moving gantry crane consisting of rail mounted gantry frame, top platform with hand railing, long / cross travel arrangements, rope drums, gear systems, electric motors, electro-magnetic brake system, cabin, control panel, wire rope, ladder, motorised for gates including cost of all materials, machinery, labour, cutting, bending, aligning, anchoring, welding, finishing, cleaning, greasing, applying two coats of zinc chromate red oxide primer and three coats of approved synthetic enamel paint and all other ancillary operations complete as per specifications and approved drawings.	1	no.	45	2,82,800	3,28,048	1,47,62,160
4.4.2	Design, fabrication, supply, erection and commissioning of rail track on spillway bridge for movement of gantry crane for handling and operating gate including cost of all materials, machinery, labour, aligning, anchoring, welding, cleaning, applying one coat of zinc rich epoxy primer and two coats of cold applied coal tar epoxy paint for buffers and rail supporting plates and all other ancillary operations complete as per specifications and approved drawings.	1	Set	40	9,100	10,556	4,22,240
4.4.3	Mandatory spare parts	1	Set	L.S.	-	-	4,55,532
5 Intake Service Gates with Hydraulic Hoist							
5.1 Gate							
5.1.1	Erection, Testing & Commissioning of already fabricated vertical lift fixed wheel type gates for a clear vent size of 2.40 m x 3.066 m with link assembly and seals (top, side & bottom) and all other ancillary operations complete as per specifications and approved drawings.	2	Set	L.S.	6,53,000	-	13,06,000
5.1.2	Teflon clad solid double stem rubber seal for (top and side) and wedge type rubber seal for bottom to be installed in already fabricated gates , as per technical specifications and approved drawings.	2	Set	27	3,000	-	79,728
5.1.3	CSK bolts and M16 Hex head bolt with nut and neoprene washer for Sl.no. 5.1.2 as per technical specifications and approved drawings.	2	Set	492	L.S.	-	82,000
5.1.4	Mandatory spare parts	1	Set	L.S.	-	-	1,30,595
5.2 2nd Stage Embedded Parts							
5.2.1	Erection, Testing & Commissioning of 2nd stage embedded parts such as sill beam, wheel tracks, side guides, anchor bolts, nuts & washers, support angles etc. as per technical specifications and approved drawings.	2	Set	L.S.	-	-	18,88,200
5.3 Single Acting Hydraulic Hoist							

5.3.1	Design, engineering, fabrication, assembly, shop testing, shop & field painting, supply of Single Acting Hydraulic Cylinders (25-T capacity) complete with Hydraulic Power Unit (HPU) and Local Control Panel (LCP) including all associated components and accessories such as cylinder barrel, piston rod, seals, mountings and glands/ stuffing box for bonnet cover, gate position indicator system, limit switches, piping/tubing, valves, pressure gauges, sensors, instrumentation, electrical wiring, and all necessary auxiliaries required for safe and efficient operation of gates, complete in all respects as per approved drawings and technical specifications.	2	Set	L.S.	20,00,000	-	40,00,000
5.3.2	Erection, Testing & Commissioning of single acting Hydraulic cylinders of 25 T tentative capacity including all the accessories such as cylinder shell, piston rod and their mountings on gate, gate position indicator and limit switches for operation of gates. Complete in all respects as per the technical specifications and drawings	2	Set	L.S.	6,00,000	-	12,00,000
5.3.3	Mandatory spare parts	1	Set	L.S.	60,000	-	60,000
6	Maintenance/Bulkhead Gate with Lifting Beam for Intake						
6.10	Gate						
6.1.1	Erection, Testing & Commissioning of already fabricated vertical lift Slide type gates for a clear vent size of 2.67 m x 4.59 m with seals (top, side & bottom) and all other ancillary operations complete as per specifications and approved drawings.	1	Set	L.S.	4,08,500	-	4,08,500
6.1.2	Teflon cladded solid stem rubber seal for (top, side and bottom) to be installed in already fabricated gates , as per technical specifications and approved drawings.	1	Set	15	2,500	-	36,440
6.1.3	CSK Screw M10 with nut and neoprene washer for Sl.no. 6.1.2 as per technical specifications and approved drawings.	1	Set	150	L.S.	-	25,000
6.1.4	Mandatory spare parts	1	Set	L.S.	-	-	41,000
6.2	2nd Stage Embedded Parts						
6.2.1	Erection, Testing & Commissioning of 2nd stage embedded parts such as sill beam, slide tracks, side guides, anchor bolts, nuts & washers, support angles etc. as per technical specifications and approved drawings.	2	Set	L.S.	-	-	12,96,300
6.20	Lifting beam						
6.2.1	Design, fabrication, supply, erection, testing and commissioning of automatic lifting beam with all accessories for handling, lowering and lifting of gate including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and two coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings.	1	Set	2	2,26,000	2,62,160	3,93,240
6.2.3	Mandatory spare parts	1	Set	L.S.	-	-	11,797
7	DG Set						
7.1	Supply of DG set minimum 300 KVA for emergency operation of gates	1	Set	L.S.	50,00,000	-	50,00,000
7.2	Installation, Testing & Commissioning and maintenance of the above equipment.	1	Set	L.S.	15,00,000	-	15,00,000
7.3	Mandatory spare parts.	1	Set	L.S.	1,50,000	-	1,50,000
8.0	Instrumentation and Remote Control						
8.1	Supply of Instrumentation and Remote Control automations for operation of gates	1	Set	L.S.	45,00,000	-	45,00,000
8.2	Installation, Testing & Commissioning and maintenance of the above equipment.	1	Set	L.S.	13,50,000	-	13,50,000
8.3	Mandatory spare parts.	1	Set	L.S.	1,35,000	-	1,35,000
9	Item considered essential for completion of all HM Works of Dam						

9.1	Design, fabrication, supply of below items with steel supports, all accessories for handling including cost of all materials, machinery, labour, cutting, aligning, welding, finishing, cleaning, applying one coat of zinc rich epoxy primer and two coats of cold applied coal tar epoxy paint and all other ancillary operations complete as per specifications and approved drawings.						
9.1.1	For Lowlevel Sluices- - Top liner plate of bonnet assembly for fixing of bonnet covers, 200mm above gate operation chamber floor (EL. 325.35). - Installation of lifting hook in each gate operation chamber for erection and maintenance of hydraulic hoist and bonnet cover.	2	Set	2	1,76,200	2,04,392	4,08,784
9.1.2	For Irrigation Sluices- -Top liner plate of bonnet assembly for fixing of bonnet covers, 200mm above gate operation chamber floor (EL. 339.35). - Installation of lifting hook in each gate operation chamber for erection and maintenance of hydraulic hoist and bonnet cover.	4	Set	4	1,76,200	2,04,392	8,17,568
9.1.3	Storage Pit at Dam Top for Intake Bulkhead Gate and Emergency Gate- Side and bottom Embedments to be installed for proper storage of gates	2	Set	2	9,100	10,556	21,112
9.2	Erection, Testing & Commissioning of Sl.no. 9.1	L.S.					3,74,239
10	Operation and Maintenance of HM works for 2 years	L.S.					50,00,000
		Total (1 to 10)					8,70,28,820
		Transportation Cost 10% on supply, in INR					68,25,652
		Grand Total (excluding GST), in INR					9,38,54,472
		Grand Total (excluding GST), in Cr.					9.39

SCHEDULE - 4 - CONTROL ROOM

Abstract of cost (PL June 2026)					
S.No.	Description	Quantity	Unit	CPWD PAR 2025 Rate (in Rs.)	Amount (in Rs.)
1	RCC FRAMED STRUCTURE (Upto six storeys)				
1.1	Floor height 3.60 metre	386.39	m ²	30920	1,19,47,154.06
1.2	Every 0.3 metre or part thereof, additional / less height of floor above normal floor height of 3.60 metre / 3.00 metre (on areas having additional / less height)	684.88	m ²	434	2,97,237.23
2	COMPOSITE (PARTIALLY LOAD BEARING AND PARTIALLY RCC FRAMED) along with Steel Truss STRUCTURE				
2.1	Floor height 3.60 metre	93.44	m ²	26280	24,55,537.50
2	FIRE FIGHTING				
2.1	Downcomer System With wet riser and sprinkler system	386.39	m ²	1200	4,63,667.04
3	FIRE ALARM SYSTEM				
3.1	Automatic fire alarm system	386.39	m ²	600	2,31,833.52
4	SERVICES (Percentage below refers to the percentage of building cost as per Sr. No. 1)				
4.1	Internal water supply & sanitary installations	4	%	1,46,99,928.79	5,87,997.15
4.2	Electrical external service connections	3.75	%	1,46,99,928.79	5,51,247.33
4.3	Civil external service connections	1.25	%	1,46,99,928.79	1,83,749.11
4.4	Internal electric installations	12.5	%	1,46,99,928.79	18,37,491.10
4.5	Power wiring and plugs	4	%	1,46,99,928.79	5,87,997.15
4.6	Lightning conductors	0.25	%	1,46,99,928.79	36,749.82
4.7	Telephone conduits	0.25	%	1,46,99,928.79	36,749.82
	Total Amount including GST				1,92,17,410.83
	Total excluding GST (in Rs. Cr.)				1.63