



CORRIGENDUMNO.3

The corrigendum no. 3 attached and published herewith as under shall be considered as a part of bidding document.

1. PART –A - CORRIGENDUM.
2. PART –B - REPLIES TO THE BIDDERS' QUERIES.



PART -A - CORRIGENDUM

Sr. No.	Clause No./ Page No.	As uploaded	Now read as
1.	Anywhere in Tender	Name of Work: Supply, Installation, Commissioning and Testing of Decorative Lighting and Illumination with 3 years of Comprehensive Operation & Maintenance including 1 year defect liability period of Sardar Sarovar Dam at Kevadia, Gujarat.	Name of Work: Supply, Installation, Commissioning and Testing of Decorative Lighting and Illumination with 3 years of Comprehensive Operation & Maintenance including 1 year defect liability period of Sardar Sarovar Dam and left bank of River Narmada from Cactus Garden to Statue of Unity signage (3Km to 3.5Km length) at Kevadia, Gujarat.
2.	Anywhere in Tender	Estimated Cost: Rs.478.352 Lakh	Estimated Cost: Rs. 666.848 Lakh
3.	Anywhere in Tender	Non-refundable Tender Fees: Rs.7,080 (Seven Thousand Eighty Rupees only) (Inclusive of GST)	Non-refundable Tender Fees: Rs.14,160 (Fourteen Thousand one Hundred and Sixty Rupees only) (Inclusive of GST)
4.	Anywhere in Tender	Earnest Money Deposit: Rs.4,78,000.00/- (Four Lakhs Seventy-Eight Thousand only)	Earnest Money Deposit: Rs.6,66,900.00/- (Six Lakhs Sixty-six Thousand Nine Hundred only)
5.	Anywhere in Tender	Project Implementation Period: 60 Days	Project Implementation Period: 70 Days
6.	Sr. No.20 Contract data Pg. no.5	20.Penalty for delay: 0.2% of contract value per day of delay, subject to maximum of 10% of the total contract value.	20. Liquidated damages: 0.1% of contract value per day of delay, subject to maximum of 10% of the total contract value.
7.	Contract data Pg. no. 8	Should it not be possible to successfully conclude the contract negotiations, or should the firm fail to submit adequate details of the cost data and the required authenticated supporting documents, the negotiations will be terminated and the firm submitting the next-ranked technical proposal will be invited to contract negotiations (and so on, if necessary, until an agreement is concluded).	Should it not be possible to successfully conclude the contract negotiations, or should the firm fail to submit adequate details of the cost data and the required authenticated supporting documents, the negotiations will be terminated and the firm submitting the next-lowest financial proposal will be invited to contract negotiations (and so on, if necessary, until an agreement is concluded).
8.	Contract data Pg. no. 8	The competent authority of SSNNL reserves its absolute and unquestionable authority to award the assignment to bidder taking into consideration their ranking in the technical and	The competent authority of SSNNL reserves its absolute and unquestionable authority to award the assignment to bidder taking into consideration their ranking in the



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		financial evaluation.	financial evaluation.																																										
9.	Clause no.2.2.5 Propose Time Line, Section – 2: Instructions to Applicant Pg no.16; Corrigendum no.2	<table><tr><th>S. No.</th><th>Particulars</th><th>Date and Time</th></tr><tr><td>1.</td><td>Issue the RFP to the Applicants</td><td>24/10/2019</td></tr><tr><td>2.</td><td>Pre-bid queries submission via email only</td><td>01/11/2019 up to 16:00 hours</td></tr><tr><td>3.</td><td>Submission of the Financial Proposal (OnlineOnly)</td><td>14/11/2019 up to 18:00 hours</td></tr><tr><td>4.</td><td>Submission of the Technical Proposal at SSNNL Office</td><td>15/11/2019 up to 15:00 hours</td></tr><tr><td>5</td><td>Opening of the TechnicalProposals</td><td>15/11/2019 at 17:00 hours (if possible)</td></tr><tr><td>7.</td><td>Opening of Financial Proposal of the Technicallyqualified Applicants</td><td>16/11/2019 at 12:00 hours (if possible)</td></tr></table>	S. No.	Particulars	Date and Time	1.	Issue the RFP to the Applicants	24/10/2019	2.	Pre-bid queries submission via email only	01/11/2019 up to 16:00 hours	3.	Submission of the Financial Proposal (OnlineOnly)	14/11/2019 up to 18:00 hours	4.	Submission of the Technical Proposal at SSNNL Office	15/11/2019 up to 15:00 hours	5	Opening of the TechnicalProposals	15/11/2019 at 17:00 hours (if possible)	7.	Opening of Financial Proposal of the Technicallyqualified Applicants	16/11/2019 at 12:00 hours (if possible)	<table><tr><th>S. No.</th><th>Particulars</th><th>Date and Time</th></tr><tr><td>1.</td><td>Issue the RFP to the Applicants</td><td>24/10/2019</td></tr><tr><td>2.</td><td>Pre-bid queries submission via email only</td><td>01/11/2019 up to 16:00 hours</td></tr><tr><td>3.</td><td>Submission of the Technical and Financial Proposal (Online Only)</td><td>21/11/2019 up to 18:00 hours</td></tr><tr><td>4.</td><td>Submission of the Technical Proposal at SSNNL Office</td><td>22/11/2019 up to 15:00 hours</td></tr><tr><td>5</td><td>Opening of the TechnicalProposals</td><td>22/11/2019 at 17:00 hours (if possible)</td></tr><tr><td>6.</td><td>Opening of Financial Proposal of the Technicallyqualified Applicants</td><td>25/11/2019 at 12:00 hours (if possible)</td></tr></table>	S. No.	Particulars	Date and Time	1.	Issue the RFP to the Applicants	24/10/2019	2.	Pre-bid queries submission via email only	01/11/2019 up to 16:00 hours	3.	Submission of the Technical and Financial Proposal (Online Only)	21/11/2019 up to 18:00 hours	4.	Submission of the Technical Proposal at SSNNL Office	22/11/2019 up to 15:00 hours	5	Opening of the TechnicalProposals	22/11/2019 at 17:00 hours (if possible)	6.	Opening of Financial Proposal of the Technicallyqualified Applicants	25/11/2019 at 12:00 hours (if possible)
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10.	Clause no.2.8Minimum Eligibility Criteria of Applicants, Section – 2: Instructions to Applicant Pg no.20	<p>I) Technical Criteria for Applicant: A. The applicant should be either of the following:</p> <p>One Similar Completed work costing not less than amount of the estimated cost₹.3.827 Croreduring last 7 Year. Or Two Similar Completed work costing not less than amount of the estimated cost₹2.392 Croreeach during last 7 years Or Three Similar Completed work costing not less than amount of the estimated cost ₹.1.913 Croreeach during last 7 years</p> <p>B. Financial Criteria: The Applicant should have a minimum average annual turnover of ₹ 1.435 Crorein last Three Financial Years ended</p>	<p>I) Technical Criteria for Applicant: A. The applicant should be either of the following:</p> <p>One Similar Completed work costing not less than amount of the estimated cost₹.5.335 Croreduring last 7 Year. Or Two Similar Completed work costing not less than amount of the estimated cost₹3.334 Croreeach during last 7 years Or Three Similar Completed work costing not less than amount of the estimated cost ₹.2.667 Croreeach during last 7 years</p>																																										



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		<p>by 31st March 2019.Should not be a loss-making company during the said period, copies of certificates, audit reports for last three years shall be submitted through CA audited report.</p> <p>Note:</p> <ol style="list-style-type: none">1) Work Order2) Similar kind of work means Permanent decorative RGB/W/Façade lighting installation on Heritage Monuments/Dam of minimum 300 Mtr length /Bridges of minimum 300 mtr length / Central Government of India , State Governments of India, Semi Government (Central / State) building of minimum 8 storage/ floor.(No other LED Lightingsrelated projects other than above will not be considered.)3) MSME certificate is not ...should be attached with the Tender.	<p>B. Financial Criteria: The Applicant should have a minimum average annual turnover of ₹7.71 Crorein last Three Financial Years ended by 31st March 2019.Should not be a loss-making company during the said period, copies of certificates, audit reports for last three years shall be submitted through CA audited report.</p> <p>C. The technical datasheet as per ANNEXURE-A2 in Corrigendum no.3 is to be submitted by the bidder along with required supporting documents for technical evaluation</p> <p>Note:</p> <ol style="list-style-type: none">1) Work Order...2) Similar kind of work means:<ol style="list-style-type: none">a) 100% of Permanent decorative RGB/W/Façade lighting installation on Heritage Monuments/Dam of minimum 300 Mtr length /Bridges of minimum 300 mtr length / Central Government of India , State Governments of India, Semi Government (Central / State) building of minimum 8 storage/ floor.ORb) 70% of Permanent decorative RGB/W/Façade lighting installation on Heritage Monuments/Dam of minimum 300 Mtr length /Bridges of minimum 300 mtr length / Central Government of India , State Governments of India, Semi Government (Central / State) building of minimum 8 storage/ floor and 30% of Permanent decorative RGB/W lighting installation on tree/garden of Central Government of India ,State Governments of India, Semi Government (Central



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			<p>/ State) shall be considered as similar nature of work. (No other LED Lightings related projects other than above will not be considered.)</p> <p>3) MSME certificate is not ... should be attached with the Tender.</p>
11.	Clause no.2.17.6, Section – 2: Instructions to Applicant Pg no.25	Public Opening and Evaluation of Financial Proposals: After the technical evaluation is completed, ... Applicants that have secured the minimum qualifying mark , the date and time for opening the Financial Proposals. The opening date should allow Applicants sufficient time to make arrangements for attending the opening. However, Applicant's attendance at the opening of Financial Proposals is optional.	Public Opening and Evaluation of Financial Proposals: After the technical evaluation is completed, ... Applicants that have secured the minimum qualification , the date and time for opening the Financial Proposals. The opening date should allow Applicants sufficient time to make arrangements for attending the opening. However, Applicant's attendance at the opening of Financial Proposals is optional.
12.	Clause no.2.19.2, Section – 2: Instructions to Applicant Pg no.26	If the selected Applicant fails to execute a contract with the Client within 8working days, the Client may elect to cancel the selection and award to the next highest-rankingApplicant .	If the selected Applicant fails to execute a contract with the Client within 8working days, the Client may elect to cancel the selection and award to the next-lowest financial bidder .
13.	Form Tech-8: Power Attorney for Authorised Signatory, Section – 4: Technical Proposal, Pg no.43	We..... (name and address of the registered office) do hereby constitute, appoint and authorize Mr./ Ms.(name and address of residence) who is presently employed with us and holding the position of.....as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our proposal for Selection of Bidder(s) for Design, Supply, Installation, Testing & Commissioning of Permanent Façade Illumination on Sardar Sarovar Dam at Kevadia, Gujarat	We..... (name and address of the registered office) do hereby constitute, appoint and authorize Mr./ Ms.(name and address of residence) who is presently employed with us and holding the position of.....as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our proposal for Selection of Bidder(s) for Supply, Installation, Commissioning and Testing of Decorative Lighting and Illumination with 3 years of Comprehensive Operation & Maintenance including 1 year defect liability period of Sardar Sarovar Dam and left bank of River Narmada from Cactus Garden to Statue of Unity signage (3Km to 3.5Km length) at Kevadia, Gujarat.



Sr. No.	Clause No./ Page No.	As uploaded	Now read as
14.	Clause no.6.1Introduction of Location/ Project Site, Section - 6: Terms of Reference, Pg no.46	The Sardar Sarovar Dam is a gravity dam..., which was later increased in 2006 to 121.92 meters and 138.98 meters in 2017.	<p>The Sardar Sarovar Dam is a gravity dam..., which was later increased in 2006 to 121.92 meters and 138.68meters in 2017.</p> <p>GENERAL DETAILS OF DAM & GATES:</p> <p>I) Location:</p> <ol style="list-style-type: none">1. State: Gujarat2. District: Narmada3. Taluka: Nandod4. River: Narmada5. Longitude: 73° 45'E Latitude: 21° 50'N <p>II) Dam:</p> <ol style="list-style-type: none">1. Type: Concrete Gravity2. Length of Main Dam: 1210.02m (3970 ft.)3. Top R.L. of Dam:146.50m (480.6 ft.)4. Maximum height above the deepest foundation level: 163.00m (535.0 ft.)5. Spillway:<ol style="list-style-type: none">a. Type: Ogeeb. Energy dissipation arrangement: Stilling basin with sloping apronc. Crest level of spillway: R.L.121.92md. Gates<ol style="list-style-type: none">i. Type: Radialii. Number & size: 7 Nos. 18.30m x 18.30m (60ft. x 60ft.) 23 Nos. 18.30 x 16.76m (60ft. x 55ft.) <p>Dam drawing is attached with Corrigendum no.3.</p>
15.	Sr. No.16, Clause no.6.3 Scope of Work A. Scope of	The permanent power supply required for the projects shall be arranged by the SSNNL, as per the design requirement given by the successful bidders. The supply	The singlepermanent power supply point required for the projects shall be arranged by the SSNNL. The supply point shall be located at left or right bank side of the



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	work for SITC, Section - 6: Terms of Reference, Pg no.48	point shall be located in the Control Room/s of the project/s. In case the successful bidders need alternative power supply to cover the power failures it shall be arranged by the bidders at his own cost.	dam as per availability. In case the successful bidders need alternative power supply to cover the power failures it shall be arranged by the bidders at his own cost.
16.	Sr. No.28, Clause no.6.3 Scope of Work A. Scope of work for SITC, Section - 6: Terms of Reference, Pg no.49	Agency must recruit qualified and related field experienced local engineer for supervision of all the work, and also arrange for a local office in Ahmedabad .	Agency must recruit qualified and related field experienced local engineer for supervision of all the work, and also arrange for a local site office .
17.	Sr. No.29, Clause no.6.3 Scope of Work A. Scope of work for SITC, Section - 6: Terms of Reference, Pg no.49	Contractor shall have to store minimum 10% of required spares driver and luminaries, in a nearby area in Ahmedabad which will be verified by SSNNL engineer and PMC randomly.	29. Contractor shall have to store minimum 5% of required spares driver and luminaries, in a nearby area in Kevadia which will be verified by SSNNL engineer and PMC randomly.
18.	Sr. No.30, Clause no.6.3 Scope of Work A. Scope of work for SITC, Section - 6: Terms of Reference, Pg no.49	30. In case of Power failure for more than 24 hours, Case I – If power failure arises by SSNNL/Local DISCOM, then agency shall have to arrange for temporary DG and SSNNL shall pay according to the norms . Case II- If Power failure arises due to any fault or any other reason from agency side, and illumination is not done, then penalty will be applicable to agency as per SSNNL norms.	30. In case of Power failure for more than 24 hours, Case I – If power failure arises by SSNNL/Local DISCOM, then agency shall have to arrange for temporary DG and SSNNL shall pay according to the approved R&B Electrical wing Govt of Gujarat SOR rates . Case II- If complete or partial Power failure arises due to any fault or any other reason from agency side, and illumination is not done, then penalty will be applicable to agency as per SSNNL norms.
19.	Sr. No.31, Clause no.6.3 Scope of Work A. Scope of work for SITC, Section - 6: Terms of Reference, Pg no.50	31. Penalty SITC: if SITC work not completed as per the completion period mention in tender, then penalty will be imposed 0.2% of contract value per day of delay, subject to maximum of 10% of the total contract valuefor remaining SITC work.	31. Penalty SITC: if SITC work not completed as per the completion period mention in tender, then penalty will be imposed 0.1% of contract value per day of delay, subject to maximum of 10% of the total contract valuefor remaining SITC work.



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20.	Sr. No.39, Clause no.6.3 Scope of Work A. Scope of work for SITC, Section - 6: Terms of Reference, Pg no.50	SSNNL shall provide single point source of electric supply. Thereafter, distribution of electric supply as per requirement shall be in the scope of bidder.	SSNNL shall provide single point source of electric supply at left or right bank side of the dam as per availability . Thereafter, distribution of electric supply as per requirement shall be in the scope of bidder.																		
21.	Sr. No.11, Clause no.6.3 B.Scope of work during the Three years Comprehensive O&M period: -, Section - 6: Terms of Reference, Pg. no.51	Bidders have to arrange minimum 3 people for management during the O&M as per following table at site will be as per approval of Authority. Contractor shall deploy personnel as required by the Project to ensure completion of the work in accordance with the contract. All the manpower proposed for the project shall be supported by relevant CV's approved by SSNNL/ PMC.	Bidders have to arrange minimum 12 people for management during the O&M as per following table at site will be as per approval of Authority. Contractor shall deploy personnel as required by the Project to ensure completion of the work in accordance with the contract. All the manpower proposed for the project shall be supported by relevant CV's approved by SSNNL/ PMC.																		
		<table><tr><th>Post & Qualification</th><th>Nos.</th></tr><tr><td>Project Manager/Supervisor with degree/diploma in Electrical or Electronics Engineering with 3 years of experience in similar works.</td><td>1</td></tr><tr><td>Technician (electrician/Wireman) with ITI certification in Electrical or Electronics Engineering with 3 years of experience in similar works.</td><td>1</td></tr><tr><td>Helper with 2 years of experience in similar works</td><td>1</td></tr></table>	Post & Qualification	Nos.	Project Manager/Supervisor with degree/diploma in Electrical or Electronics Engineering with 3 years of experience in similar works.	1	Technician (electrician/Wireman) with ITI certification in Electrical or Electronics Engineering with 3 years of experience in similar works.	1	Helper with 2 years of experience in similar works	1	<table><tr><th>Post & Qualification</th><th>Nos.</th></tr><tr><td>Project Manager/Supervisor with degree/diploma in Electrical or Electronics Engineering with 3 years of experience in similar works.</td><td>1</td></tr><tr><td>Technician (electrician/Wireman) with ITI certification in Electrical or Electronics Engineering with 3 years of experience in similar works.</td><td>3</td></tr><tr><td>Helper with 2 years of experience in similar works</td><td>4</td></tr><tr><td>Security (2 persons) round the clock</td><td>4</td></tr></table>	Post & Qualification	Nos.	Project Manager/Supervisor with degree/diploma in Electrical or Electronics Engineering with 3 years of experience in similar works.	1	Technician (electrician/Wireman) with ITI certification in Electrical or Electronics Engineering with 3 years of experience in similar works.	3	Helper with 2 years of experience in similar works	4	Security (2 persons) round the clock	4
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Helper with 2 years of experience in similar works	4																				
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Clause no.6.9 Contract award, Section - 6: Terms of Reference, Pg no.53	The SSNNL reserves the right to contract for all or a partial list of services offered in the proposal. The TENDER and the Applicant's proposal will become part of the contract between the Client and the Bidder(s). If the Bidder(s) fails to execute a contract with the Client within 8 working days, the Client may elect to cancel the selection and award to the next highest-ranking applicant .	The SSNNL reserves the right to contract for all or a partial list of services offered in the proposal. The TENDER and the Applicant's proposal will become part of the contract between the Client and the Bidder(s). If the Bidder(s) fails to execute a contract with the Client within 8 working days, the Client may elect to cancel the selection and award to the next-lowest financial bidder .																			



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23.	Annexure – 1: List of Equipments, Pg no.56	List of Equipment Following list of...approved by SSNNL. Sr. No. 1 Supply of 440 W ... Sr. No. 7 SITC of Distribution ... As per site requirement Note: 1) Quantity indicated above is tentative... 5) List of Preferred Makes of Material... As per approval in SSNNL	Deleted
24.	Clause no. 6.3 Mode of Billing and Payment, Section – 7: General conditions of contract, Pg no.75	a. Within the number of days after the Effective Date specified in the SC, the SSNNL shall cause to be paid to the Bidder(s) advance payments in Indian currency as specified in the SC. When the SC indicate advance payment, this will be due after provision by the Bidder(s) to the SSNNL of an advance payment guarantee acceptable to the SSNNL in an amount (or amounts) and in a currency (or currencies) specified in the SC. Such guarantee (i) to remain effective until the advance payment has been fully set off, and (ii) to be in the form as may be prescribed by the SSNNL. The advance payments will be set off by the SSNNL in equal installments against the statements for the number of months of the Works specified in the SC until said advance payments have been fully set off.	a. Deleted
25.	Sr. No. 10, Section 8: Special Conditions of Contract, Pg no.81	3.5 c. professional liability insurance, with a minimum coverage equivalent to the total amount of total fees to be paid by the SSNNL to the Bidder(s)	3.5 c. Deleted
26.	Sr. No. 10, Agreement for Operation and maintenance, Pg no.85	10. In case, the installation is not operated due to non-availability of manpower/spares, the CLIENT shall be compensated by Rs 20,000/- per day by the Applicant. If the same continued for consecutive three days, CLIENT has right to terminate the contract without any notice and forfeit the due payments for this work. Penalty for O&M, after commissioning and on the commencement of the O&M work, if the decorative lighting	10. Penalty for O&M, after commissioning and on the commencement of the O&M work, if the about 10% decorative lighting remains in non-working condition for more than 3hrs during operational time, then penalty of Rs.20,000/- will be applicable. If the same continued for consecutive three days, SSNNL has right to terminate the contract without any notice and forfeit the due payments for this work.



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		remains in non-working condition for more than 24 hrs, then penalty Rs. 5000/- per day to up to maximum ceiling of Rs. 50,000/- per month will be applicable.	Above clause is applicable in all cases except during scheduled maintenance or force majeure.
27.	Price Schedule-B, B1, Volume-Two, Pg. no.94	Price Schedule-B (Price quoted in the Schedule-B... inclusive of all other taxes except GST.	Refer Annexure-A3 for revised Price Schedules
28.	Price Schedule-B1, B1, Volume-Two, Pg. no.95	Selection of Bidder for Work of Selection ...(Price quoted in the Schedule-B shall be the governing price for evaluation and award of contract) Sr. No. 1 Supply of 440 W ... Sr. No. 7 SITC of Distribution ... Total amount of Supply, Installation, Testing & Commissioning +03 (Three) years of comprehensive Operation & Maintenance including of first year as defect liability period (Rs)	Refer Annexure-A3 for revised Price Schedules



PART -B - REPLIES TO THE BIDDERS' QUERIES

Sr. No	Page No.	Clause No.	As per Tender	Bidder's Query	SSNNL reply
1.	4	Contract Data	Project implementation period : 60 Days	Completion Time involving imported item should be not less 100 Days for project of this magnitude. not less 100 Days for project of this magnitude	Refer Sr. No. 5 of Part-A, Corrigendum no.3
2.	20	2.8Minimum Eligibility Criteria of Applicants	Note: 2) Similar kind of work means Permanent decorative RGB/W/Façade lighting installation onHeritage Monuments/Dam of minimum 300 Mtr length /Bridges of minimum 300 mtr length / Central Government of India , State Governments of India, Semi Government (Central / State) building of minimum 8 storage/floor.(No other LED Lightingsrelated projects other than above will not be considered.)	Experience of execution of work only with the Govt. department is not at all logical. Experience in private sector must also be considered. Further, the agencies who have carried out sound and Light show installation which has much more complex system should also be considered as similar work experience.	Refer Sr. No. 10 of Part-A, Corrigendum no.3
3.				IT should be : Similar Kind of Work means Permanent decorative lighting RGB/Facade lighting installation in heritage Monument / Historical Museum Building/Dam of minimum 300 Mtr length /Bridgeof Minimum 300 Mtr length /Central Government/State Government/Semi Government building/Any Organisation by Trust or NGO should be eligible for same instead of only 300 Mtr Length & height	
4.	20	2.8Minimum Eligibility Criteria of Applicants	Note: 3) MSME certificate is not consider against relaxation in Technical eligibility criteria.	As per the Govt. of India provisions, the organizations registered with MSME must be exempted from Tender Fee & EMD	Tender conditions prevail
5.	21	2.9Participation in Joint Venture or Consortium	No Joint Venture is allowed	Consortium should be allowed to atleast two parties	Tender conditions prevail
6.	44	8, Section-5: Financial Proposal	Terms of Payment: ii. Comprehensive Operation and Maintenance of 3 years-----15% of tendered amount (Say Y).	Terms of Payment: Comprehensive maintenance for three year is to be done & an amount equal to 15% of contract amount has been provided for it. Instead of 15%, it should be reduced to 12% i.e. 4% per year.	Tender conditions prevail



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7.	52	Sr. No.19, Clause no.6.3 Scope of Work B. Scope of work during the Three years Comprehens ive O&M period	All equipment's shall be covered under OEM guarantee for a period of 3 years from after DLP period.	Warranty change from 2yrs to 3yrs	Tender conditions prevail
8.	55	Annexure 1 List of Equipment	Sr. No. 2 Supply of 1000 W, 4-IN-1 LEDS, RGBW Washer Light, 16.7 million of colour by mixing suitable for façade lighting surface monument luminaire for outdoor application. Light Source: CREE /OSRAM / SAMSUNG / NICHIA / SEOUL / LUMILEDS/PHILIPS,Specific high efficiency optic lens and Aluminum die casting, 50,000 hours life span and lower power consumption, Controllable manually for TILT angle adjustment Luminaire optic consists of highly efficient, UV and temperature-resistant lens systems. Symmetric distribution., Housing: Die-cast aluminum Color: Black Environment: IP65 IP POWER Socket, IP DMX XLR. The luminaire should be provided with Electrical safety class I. Power Efficiency : >85%, Operating Temperature : +5°C to +55°C, Operating Humidity : 10%-90%, Housing to have adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements, Smooth LED dimming, LED rainbow effect, Macro effect, Strobe effect, with 25 flashes per second and	1000 Wattage for Fixtures mentioned in NIT which is not energy efficient, kindly add10000 Lumens range in NIT so that you get better product with energy efficientfixtures and reduce 1000 Wattage to 350 Wattage.	Refer Sr. No. 27 & 28 of Part-A, Corrigendum no.3
9.				We can reduce the overall power consumption to 1/6th by limiting the Maximum wattage of the wash light fitting from 1000W to 300W. By using much efficient fixture. Mentioning the minimum lumen output of atleast 10000lumens will help in getting most efficient light fixtures.	



Sr. No	Page No.	Clause No.	As per Tender	Bidder's Query	SSNNL reply
			pulse effect and General dimming and blackout for all four colors, 4/6/9 DMX channels UNISTT DMX512, master-slave and sound activated controllable or auto operation LED display with 4 control buttons IP65 power cables IN/OUT, IP 65 DMX cables, Noise free efficient aluminum cooling system, Dual handle for easy taking, IP65 protection rating.		
10.	56	Annexure 1 List of Equipment	Sr. No. 3 Supply of DMX Controller System with Standalone interfaces, Input connector: Built in UPS battery backup 8 physical DMX outputs, up to 16 over ArtNet or sACN - 8192 channels Supports Titan Network Processors for DMX expansion up to 64 universes, Dual Ethernet port, Direct SMPTE in, Connectivity with Sapphire Touch Wing Dedicated theatre cue stack control, Huge programming surface – capacity for 2 external touch screens 20 programmable macro buttons, Screen articulation, MIDI In Out and Through, Trigger Inputs, 45 motorized, automated master playbacks, Massive, vibrant 15.6" widescreen programming windows Fast, live and hands on attribute controls, Unique Tricolour illuminated tracker ball with Z axis control to give fast control of	The given specification demands for 8192 channel DMX : 4 Quantity Bidder wants to clarify, the one DMX single DMX is capable for controlling all the lights. What is the idea for keeping spares? Is there any scope for future expansion not less 100 Days for project of this magnitude	Refer Sr. No. 27 & 28 of Part-A, Corrigendum no.3
11.				Also, just 2 nos. of DMX controllers would suffice the requirement, instead of 4 nos.	



Sr. No	Page No.	Clause No.	As per Tender	Bidder's Query	SSNNL reply
			distance related attributes - zoom, iris and focus, The luminaire should be provided with Electrical safety class I. Power Efficiency : >85%, Operating Temperature : +5°C to +55°C, Operating Humidity : 10%-90%, Quantity 4 Nos.		
12.	56	Annexure 1 List of Equipment	Sr. No. 4 Supply of Signal Amplifier, should be specially design for signaamplification for DMX Master controller signal which attenuated after a long-distance transmission, realize extending the signal transmission distance. Increase DMX Signal amplifier to distribute multi-channel control. should have Photo-electricity insulation of 1KV between input and output terminal, should operate on 12-24V DC. Working temperature (+5 °C to 55 Deg Cel), Quantity 24 Nos.	Instead of using 24nos. of Signal Amplifiers, we can manage the DMX signals & programming well, with just 6nos. of much efficient DMX Splitters	Refer Sr. No. 27 & 28 of Part-A, Corrigendum no.3
13.	56	Annexure 1 List of Equipment	Sr. No. 5 SITC of Ethernet Wi-Fi router with switcher (As per site requirement), Quantity 1 No.	Bidder needs clarification for the scope, Bidder understand that the scope of Bidder is limited to Supply and installation of router only, the providing of Ethernet cable and theconnection shall be in the scope of SSNNL. not less 100 Days for project of this magnitude	The scope of work includes providing of required Ethernet cable& internet connection.
14.	56	Annexure 1 List of Equipment	-	In this Tender IP 65 asked in NIT which should be amended as IP 66 because mostlylighting would be used in Dam (Open Environment). IP 66 protects against dust andprotect against powerful Jetting water.	Refer Sr. No. 27 & 28 of Part-A, Corrigendum no.3
15.				IP66 rated fittings are needed here instead of IP65, being a Dam	
16.	-	Annexure 1 List of Equipment	-	Request you to please add IK08 for Lighting because it defines the level of resistance of enclosures provided for electronic equipment	Refer Sr. No. 27 & 28 of Part-A, Corrigendum no.3



Sr. No	Page No.	Clause No.	As per Tender	Bidder's Query	SSNNL reply
				to mechanical impacts and this rating can be an important factor when choosing an outdoor Lighting or which may be fitted in an area which could be subject to attempted vandalism or other impact.	
17.				Also, minimum of IK08 is required, being a Dam & huge vibrations	
18.	-	Annexure 1 List of Equipment	-	Cable Glands IP rated should be added in NIT which is IP 67/IP 68.	Refer Sr. No. 27 & 28 of Part-A, Corrigendum no.3
19.				IP68 cable glands.	
20.	-	Annexure 1 List of Equipment	-	Corrosion Resistance need to be added and comply with ISO12944/C5-M Marineprotection standard	Refer Sr. No. 27 & 28 of Part-A, Corrigendum no.3
21.				Corrosion resistance to comply with ISO12944/C5-M Marine protection standard	
22.	-	Annexure 1 List of Equipment	-	Precise Beam control is not mentioned in NIT. Kindly add 6-8deg/ 10-12deg & 50-60deg.	Refer Sr. No. 27 & 28 of Part-A, Corrigendum no.3
23.				Precise beam control 6-8deg/ 10-12deg & 50-60deg	



ANNEXURE-A2 TECHNICAL DATASHEET

The following technical datasheets are to be submitted by the bidder along with required supporting documents for technical evaluation:

1)FOR RGBW WASH LIGHT

Item	Item Proposed Specifications	Make & Model offered by bidder	Remarks
Make	Bidder to Specify		
Make of LED	Cree/Nichia/Osram/Lumileds		
	(LED shall be of Surface Mounted Design)		
Model	Bidder to Specify		
Body of fittings	Die Cast AL, dark grey powder coated finish		
System Wattage at maximum output, steady state			
Lumens Output			
Luminaries capable for color changing	Red/Green/Blue/White		
Control (Operating Platform)	DMX/Ethernet		
Available Beam angle options (final beam angles to be decided as per actual site conditions)	Narrow beam (7-10 deg , 12-15 deg), Medium Beam (22-25 deg) Wide Beam (40-50 deg , 55-65 deg) , Asymmetric - Beam (5-7 deg X 17-20 deg)		
Operating voltage	164 to 264 VAC, auto-ranging, 50 Hz		
Lumen maintenance	50000 Hours @L70 25 Degree C		
Operating Temperature Range	5 to 50 deg C		
IP /IK Protection	IP66, IK08		
Surge Protection	min 4KV		
Mandatory Certification	Luminaire should be UL/CE or NABL accredited third party lab		
Mandatory test report	LM79, LM80		
Power Efficiency	0.85 or more		
Luminaire connectors	Integral Male/Female Waterproof Connectors, IP65 Cable Glands		
Center beam Lux levels for beam angle of 55-60 degree (for RGBW fixture)	Average Lux of 50		



2)FOR MOVINGHEAD LIGHT

Item	Item Specifications	Proposed	Make & Model offered by bidder	Remarks
Make	Bidder to Specify			
Make of LED	Cree/Nichia/Osram/Lumileds			
	(LED shall be of Surface Mounted Design)			
Model	Bidder to Specify			
Body of fittings	Die Cast AL, dark grey powdercoated finish			
System Wattage at maximum output,steady state	180			
Lumens Output				
Luminaries capable for color changing	Yes			
Control (Operating Platform)	DMX/Ethernet			
Available Beam angle options (final beam angles to be decided as per actual site conditions)	1.5-2.5 deg			
Operating voltage	164 to 264 VAC, auto-ranging, 50 Hz			
Lumen maintenance	25000 Hours @L70 25 Degree C			
Operating Temperature Range	5 to 45 deg			
IP /IK Protection	IP65			
Surge Protection	min 4KV			
Mandatory Certification	Luminaire should be UL/CE or NABL accredited third party lab			
Mandatory test report	LM79, LM80			
Power Efficiency	0.85 or more			
Luminaire connectors	Integral Male/Female Waterproof Connectors, IP65 Cable Glands			
Rotation Horizontal / Vertical (PAN / TILT)	540 / 210 Deg			
Effect System	8 Gobos / Prism System			

The Approved make list is as under:

Sl. No.	Brief Description of Material	Name of Approved Makes
1	Aluminium/ copper power cable & wires	KEC international / KEI / Nicco / Polycab / RPG / Universal / Torrent / Fort Gloster / Finolex / Ravin Cables / Asian Cables / Havells / RR Kabel



Sl. No.	Brief Description of Material	Name of Approved Makes
2	MCCB/MCB/ELCB/ RCCB	Schneider Electric/ Legrand/Hager/ L&T/ABB (Elegance)/ Siemens
3	Distribution Box	C&S/ Havells/ ABB/ Hensel/ Syntex
4	Wi-Fi Router	Cisco/D-Link/HP
5	Instrumentation and networking cable	CMI ltd / Delton cables ltd- / Elkay telelinks ltd / Finolex cables ltd / Havells India Pvt. Ltd / KEI industries ltd / Nicco corporation ltd / Polycab wires Pvt. Ltd / Ravin cables ltd / Torrent cables ltd / Universal cables ltd. / Lapp India ltd./ Belden cables/DLink/Schneider/ Mlex/ Tyco
6	Moving Head Light *	CLAYPAKY/SGM/MARTIN
7	RGBW Washer Light *	COLOURKINETICS/ MARTIN/ CLAYPACKY / SGM/GRIVEN/ STUDIO DUE
8	DMX Controller	SUNLITE/ MARTIN/ MADRIX
9	DMX Splitter	DTS/ MARTIN/ PROCOM/ STRAND LIGHTING
10	Other Electrical Item	As approved by SSNNL

* Equivalent make of the same specification will be consider subject to submission of satisfactory Performance Certificate of minimum three years from any Central or State Government / Central or State Semi Government organizations.



ANNEXURE-A3

Price Schedule-B

(Price quoted in the Schedule-B shall be the governing price for evaluation and award of contract)

Sr. No.	Description of Work	Estimated Tender Cost (in LAKHS)	Total lumpsum price in figures in (INR) Exclusive of GST	Total lumpsum price in words in (INR) Exclusive of GST
1	Supply, Installation, Commissioning and Testing of Decorative Lighting and Illumination with 3 years of Comprehensive Operation & Maintenance including 1 year defect liability period of Sardar Sarovar Dam and left bank of River Narmada from Cactus Garden to Statue of Unity signage (3Km to 3.5Km length) at Kevadia, Gujarat.	666.848		

Note:

1. The amount in Price Schedule-B should be the addition of amount in Price Schedule-B1 and Price Schedule-B2.
2. The rate quoted by the bidder shall be exclusive of GST. GST amount shall be reimbursed by SSNNL after submission of statutory certified documents/ tax invoices.
3. The financial quote shall be inclusive of all other taxes except GST.



Price Schedule-B1

Selection of Bidder for Work of Selection of Supply, Installation, Commissioning and Testing of Decorative Lighting and Illumination with 3 years of Comprehensive Operation & Maintenance including 1 year defect liability period of Sardar Sarovar Dam and left bank of River Narmada from Cactus Garden to Statue of Unity signage (3Km to 3.5Km length) at Kevadia, Gujarat.

PRICE BID

(Price quoted in the Schedule-B shall be the governing price for evaluation and award of contract)

Sr. No.	Product Specifications	UOM	Quantity	Unit Price (Rs) Excluding GST	Total Rs. Excluding GST
1	Supply of 180 W Moving Head Light with high quality circuit design for stable and reliable performance, Voltage: AC164V-264V 50Hz, Light Source: CREE /OSRAM / SAMSUNG / NICHIA / SEOUL / LUMILEDS/PHILIPS, High Brightness LED LAMP, Light source life: 2500 hours, 8 colors+ white, half color, can change rainbow effect, Pattern system: 8 fixed patterns +white light, 1.5-2.5 deg beam Linear dimming curve: 0percent-100percent linear dimming, Prism System: 16 Prisms, Rotatable, Macro Function, 16 Beams, Display: vertical use of custom three-phase motor, horizontal can do 540 rotation, vertical can be done 210° rotation, speed is fast and smooth, the lamp set intelligent photoelectric reset correction system, accidental misoperation, but also can automatically reply original position., cooling system: The temperature is tested completely at 40 degrees ambient temperature IP65 protection rating, Power Efficiency : greater than 85percent, Operating Temperature : 5°C to + 50°C, Operating Humidity : 10percent-90percent,	Nos	32		
2	Supply of a set of completely weatherised RGBW Washer Lights to illuminate every gate of the Sardar Sarovar Dam, power consumption at every gate must not exceed 3500Watts. +/- 10percent The fixture must be efficient to give average lux of Minimum 50 & fixture of efficiency 42 lumens/watt (submit the calculation report/ chart as supporting document). RGBW colour mixing suitable for façade lighting surface monument luminaire for outdoor application. Operating temperature from 5°C to 50°C , IP66, IK08 and fully convection cooled IP66-rated aluminum housing , with IP68 cable glands. Specific high efficiency optic lens and 50,000 hours life span and lower power consumption, Controllable manually for TILT angle	Set	30		



Sr. No.	Product Specifications	UOM	Quantity	Unit Price (Rs) Excluding GST	Total Rs. Excluding GST
	adjustmentLuminaire optic consists of highly efficient, UV and temperature-resistant lens systems. Symmetric distribution., Housing :Die-cast aluminum, IP DMX XLR. Pre-installed with power and data cable, integrated multirange 165-264V power supply, no external control boxes. RoHS compliant. The luminaire should be provided with Electrical safety class I. Power Efficiency : greater than85percent, Housing to have adjustable base bracket for angle adjustment so that the light direction can be adjusted to illuminate desired structural elements, Smooth LED dimming and General dimming and blackout for all four colors, 3-5 DMX channels .USITT DMX512-A/RDM, master-slave and sound activated controllable or auto operation LED display with 4 control buttons, Noise free efficient aluminum cooling system, Dual handle for easy taking, Surge protection of min 4KV. Light Source: CREE /OSRAM / SAMSUNG / NICHIA / SEOUL / LUMILEDS/PHILIPS. (All above parameter mentioned test reports required) NOTE: Effect to be similar to the uploaded picture of existing lighting of the dam and the surface illumination area of each gate is from top RL of dam i.e. 146.50 mtrs to 55 meter below. Each set is for each gate i.e. 30 gates				
3	Supply of DMX Controller System with Standalone interfaces, Input connector: Built in UPS battery backup8 physical DMX outputs, up to 16 over ArtNet or sACN - 8192 channels Supports DMX expansion up to 64 universes, Dual Ethernet port, Direct SMPTE IN.Dedicated theatre cue stack control, Huge programming surface – capacity for 2 external touch screens20 programmable macro buttons, Screen articulation, MIDI In Out and Through, Trigger Inputs, 45 motorised, automated master playbacks, Massive, vibrant 15.6" widescreen programming windows Fast, live and hands on attribute controls, Unique Tricolour illuminated tracker ball with Z axis control to give fast control of distance related attributes - zoom, iris and focus, The luminaire should be provided with Electrical safety class I. Power Efficiency : greater than85percent, Operating Temperature : 5°C to +55°C, Operating Humidity : 10percent-90percent,	Nos	2		
4	Supply of DMX Splitter to maintain proper data over long or several runs of DMX signal. The Splitter boosts the weak DMX signal to its original output level before it becomes too low to be read by DMX devices, to rectify the signal. 5-pin XLR Input and Outputs DMX-RDM Splitter/Booster Opto-isolated DMX Output ports. Rack, truss and wall mountable. Housing: Aluminum Finish: Electrostatic powder-coated Data input: 5-pin XLR male,	Nos	6		



Sr. No.	Product Specifications	UOM	Quantity	Unit Price (Rs) Excluding GST	Total Rs. Excluding GST
	Data throughput (not amplified or branched): 5-pin XLR female Data outputs (optically isolated and amplified): 5 x 5-pin XLR female AC power input: AC power throughput: 4 x screws to join two devices for rack mounting, 2 x L-brackets + 8 x screws for 19-inch rack mounting two Splitters (1U) or surface mounting,				
5	SITC of Ethernet Wi-Fi router with switcher (As per site requirement)	Nos	1		
6	DSITC of IP 65 Main panel MCCB (25 KA) 250 A (Quantity – 1 nos) near transformer or source from CPRI approved vender with under voltage & over voltage protection relay, SITC and Laying of XLPE FRLS power Cables and control cable with cable tray / conduit for RGBW Luminaires, Supply and Laying of DMX / CAT 6 cable for DMX Controller System, Installation, testing & commissioning of RGBW Lights with necessary mounting arrangement, Weatherproof Junction Boxes for DMX Components with necessary mounting arrangements, DMX Software & Programming for required Facade Lighting Themes and other electrical components & with proper chemical earthing as per site requirement, electrical item make as per approval by SSNNL. Electrical drawing shall be approve by SSNNL	Job	1		
7	DSITC of Distribution Board IP 65 415V to 12 x 16A, 3 x 32A 230V Outlets, 1 x 63A 4 pole MCCB (25KA), 3 x 30mA RCD (6 x 16A sockets per RCD & 3 x 32A / RCD), ELCB per phase (30mA/100mA), 1 x C Type MCB per socket, 3 x Neon to show Power On (1 per phase) and As per site requirement and electrical drawing shall be approve by SSNNL	Nos	30		
Total amount of Supply, Installation, Testing & Commissioning +03 (Three) years of comprehensive Operation & Maintenance including of first year as defect liability period (Rs)					

Note:

- 1) The rate quoted by the bidder shall be exclusive of GST. GST amount shall be reimbursed by SSNNL after submission of statutory certified documents/ tax invoices by the Bidder. However, The financial quote shall be inclusive of all other taxes except GST.
- 2) Items indicated on Sr. no.: 5,6,7 are on lumpsum basis only. Bidder has to visit the sites and has to supply and install the quantity as per actual requirements approved by SSNNL / Consultant. No extra or excess item will be entertained for these items.
- 3) The Sardar Sarovar Dam decorative lighting shall be as per effect and theme should be similar according to present temporary lighting as shown in uploaded pictures.
- 4) Design and supply of Electrical power cables considering voltage drop not be less than 3%.



Price Schedule-B2

Selection of Bidder for Work of Selection of Supply, Installation, Commissioning and Testing of Decorative Lighting and Illumination with 3 years of Comprehensive Operation & Maintenance including 1 year defect liability period of Sardar Sarovar Dam and left bank of River Narmada from Cactus Garden to Statue of Unity signage (3Km to 3.5Km length) at Kevadia, Gujarat.

PRICE BID

(Price quoted in the Schedule-B shall be the governing price for evaluation and award of contract)

Sr. No.	Product Specifications	UOM	Quantity	Unit Price (Rs) Excluding GST	Total Rs. Excluding GST
1	Supply of 200W LED Light for illuminated for Trees for Road Stretch opp. River Bank site up to 3.5 Km, Aluminum Die-casting body with surface anodic oxidation, LEDs are protected with UV stabilized toughened glass on the front, Highly reliable constant voltage power supply drives the LEDs of fitting with appropriate suitable beam angle & desired effect of Facade, LED Make : CREE / LUMINOUS / OSRAM / SAMSUNG / NICHIA / SEOUL / LUMILEDS/PHILIPS, IP65 Ingress protection, Electrical Safety Class : Class1, Power Efficiency : greater than85percent, Power Factor : greater than0.9,Operating Frequency : 50 Hz, Operating temperature : 5 to +55 degree centigrade, Output Color : Green/Warm White, Life Span : greater than50000 hours Operating Humidity : 10percent - 90percent,	Nos	700		
2	Supply of 200W LED Light for illuminated for Trees for Road Stretch near open garden, Aluminum Die-casting body with surface anodic oxidation, LEDs are protected with UV stabilized toughened glass on the front, Highly reliable constant voltage power supply drives the LEDs of fitting with appropriate suitable beam angle & desired effect of Facade, LED Make : CREE / LUMINOUS / OSRAM / SAMSUNG / NICHIA / SEOUL / LUMILEDS/PHILIPS, IP65 Ingress protection, Electrical Safety Class : Class1, Power Efficiency : greater than85percent, Power Factor : greater than0.9,Operating Frequency : 50 Hz, Operating temperature : 5 to +55 degree centigrade, Output Color : Green/Warm White, Life Span : greater than50000 hours Operating Humidity : 10percent - 90percent,	Nos	150		



Sr. No.	Product Specifications	UOM	Quantity	Unit Price (Rs) Excluding GST	Total Rs. Excluding GST
3	DSITC of IP 65 Main panel Incomer MCCB 350A (25KA)(Quantity – 1 nos), outgoing MCCB 250A (25KA) Quantity – 2 nos, & Outgoing MCCB 100A (25KA) Quantity – 2 nos from CPRI approved vender with under voltage & over voltage protection relay near transformer or source, SITC and Laying of XLPE FRLS power Cables and control cable with cable tray / conduit for Luminaires, Installation, testing & commissioning of Lights with necessary mounting arrangement, and other electrical components& with proper chemical earthing as per site requirement, electrical item make as per approve by SSNNL. Electrical drawing shall be approve by SSNNL	Job	1		
4	DSITC of Distribution Board IP 65 415v to 12 x 16A, 3 x 32A 230v Outlets, 1 x 63A 4 pole MCCB (25KA), 3 x 30mA RCD (6 x 16A sockets per RCD & 3 x 32A / RCD), ELCB per phase (30mA/100mA), 1 x C Type MCB per socket, 3 x Neon to show Power On (1 per phase) and with proper chemical earthing. As per site requirement and electrical drawing approve by SSNNL	Nos	30		
Total amount of Supply, Installation, Testing & Commissioning +03 (Three) years of comprehensive Operation & Maintenance including of first year as defect liability period (Rs)					

Note:

- 1) The rate quoted by the bidder shall be exclusive of GST. GST amount shall be reimbursed by SSNNL after submission of statutory certified documents/ tax invoices by the Bidder. However, The financial quote shall be inclusive of all other taxes except GST.
- 2) Items indicated on Sr. no.: 3& 4 are on lumpsum basis only. Bidder has to visit the sites and has to supply and install the quantity as per actual requirements approved by SSNNL / Consultant. No extra or excess item will be entertained for these items.
- 3) The Sardar Sarovar Dam decorative lighting shall be as per effect and theme should be similar according to present temporary lighting as shown in uploaded pictures.
- 4) Design and supply of Electrical power cables considering voltage drop not be less than 3%.