

Clarification of Queries raised by various bidders during the prebid meeting held on 07.08.2020 against NIT for "Supply, Installation, Testing & Commissioning of Dynamic RGB Façade Lighting of Buildings & Structures on Mussoorie Mall Road & Methodist church with Operation & Comprehensive maintenance for 3 years."

Sl No.	Tender Document Reference	Clause # / BOQ SNo.	Clause as per Tender Document	Clarification Sought	Clarification Issued
1	BOQ	1.1	Supply & Installation of Four Feet Length color and high-quality RGBW / RGBA LED linear grazing luminaire with housing material of Extruded anodized aluminium, Lens -Clear UV-protected polycarbonate, system wattage not exceeding 80W and system lumen output of not less than 2000 lumens with all channel on. Luminaire should be capable of producing dynamic color changing light by DMX/Ethernet based control. Fixture shall be available with architectural optics with choice of beam angles of 5°-10° x 5°-10°, 5°-10° x 50°-60°, 10°-15° x 25°-30°, 25°-30° x 55°-60°, and 55°-60° x 25°-30°. Luminaire should be capable of operating at line voltage without any separate power supply from 100-277 V AC. Lifetime should be at least 50,000 burning hours, IP66 protection. Fixture shall equipped with mechanical impact of minimum IK08.	The item no 1.1 should be 1000-1250mm and wattages should be 80-100W	A +10% tolerance in maximum wattage limit has been included in the corrigendum.  Length of fixture within 1000-1250 mm range will be acceptable.  Please refer corrigendum.
2	BOQ	1.2	Supply & Installation of One Feet Length color and high-quality RGBW / RGBA LED linear grazing luminaire with housing material of Extruded anodized aluminium, Lens -Clear UV-protected polycarbonate, system wattage not exceeding 20W and system lumen output of not less than 500 lumens with all channel on. Luminaire should be capable of producing dynamic color changing light by DMX/Ethernet based control. Fixture shall be available with architectural optics with choice of beam angles of 5°-10° x 5°-10°, 5°-10° x 50°-60°, 10°-15° x 25°-30°, 25°-30° x 55°-60°, and 55°-60° x 25°-30°. Luminaire should be capable of operating at line voltage without any separate power supply from 100-277 V AC. Lifetime should be at least 50,000 burning hours, IP66 protection. Fixture shall equipped with mechanical impact of minimum IK08.	The item no 1.2 should be 500-600mm and wattages should be 6-12	A +10% tolerance in maximum wattage limit has been included in the corrigendum.  Length of fixture within 300-500 mm range will be acceptable.  Please refer corrigendum.
3	BOQ	1.5	Supply & Installation of LED Linear IP66 - Two feet wall washer luminaire,3000K, for low level Grazing application with Housing of Extruded aluminum, wattage not exceeding 10 W with lumen output of not less than 800 with CRI-80. Luminaire has a choice of architectural optics with beam angles of Elliptical (20-30° x 80-90°) or Wide (110-120°) degree. Luminaire should be capable of operating at line voltage without any separate power supply from 100-240 V AC. Lifetime should be at least 50,000 burning hours ,with total IP66 protection should be provided.Fixture shall equipped with mechanical impact of minimum IK06.	The item no 1.5 should be 500-600mm instead of two and wattage should be ___ Watts	A +10% tolerance in maximum wattage limit has been included in the corrigendum.  Length of fixture within 550-650 mm range will be acceptable.  Please refer corrigendum.
4	BOQ	1.6	Supply & Installation of LED Linear IP66 - Four feet wall washer luminaire,3000K, for low level Grazing application with Housing of Extruded aluminum, wattage not exceeding 25W with lumen output of not less than 1500 with CRI-80. Luminaire has a choice of architectural optics with beam angles of Elliptical (20-30° x 80-90°) or Wide (110-120°) degree. Luminaire should be capable of operating at line voltage without any separate power supply from 100-240 V AC. Lifetime should be at least 50,000 burning hours ,with total IP66 protection should be provided.Fixture shall equipped with mechanical impact of minimum IK06.	The item no 1.6 should be 500-600mm instead of four feet and wattage should be 30Watts	A +10% tolerance in maximum wattage limit has been included in the corrigendum.  Length of fixture within 1000-1250 mm range will be acceptable.  Please refer corrigendum.
5	BOQ	1.7	Supply & Installation of Data formatting device specifically designed for luminaires operates on the same technology [single-cable line voltage operation] suitable for Power I / p - 100-240V AC, 50-60 Hz,Max connected load- 16A,Internal loss not to exceed -20W,Heat dissipation should be in the order of 10W max Ambient temperature - 0°C- 50°C ,Data i/p interface - DMX / Ethernet ,Protection rating - IP66 (Suitable for humid / raining locations),Input Voltage 100 – 277 VAC, auto-ranging, 50 / 60 Hz,Maximum Input Current 16.5 A, Construction -Cast aluminum enclosure with slots for surface mounting.	The item no 1.7 should be removed and must be part of the light fixture itself if any bidder intends to give this item is the product of Philips Color Kinetics only. No other company has this in their range for data and power integration	Submission of Technical Form for Item No 7 (BOQ Item 1.7) and its supporting documents is not required if the bidder does not require to supply data formatting devices. Please refer corrigendum
6	General	-	Not specified	The peak intensity of the product is required for the narrowest beam angle which is not relevant point because the design may have the wide beam angles requirement for the product	No change in tender specification.  Peak intensity of narrowest beam angle has been considered as a baseline and therefore is required. Intensity for wider angles will be determined accordingly. Exact beam angle shall be determined as per site condition only.
7	BOQ	2	Supply & Installation of exterior rated 4 ft.LED Direct View Ethernet controlled luminaire Compact linear direct view luminaire for dynamic media & graphic effects , RGB, (4FT) ,Designed for media graphics with a resolution up to 150 mm Pitch,Body of fittings- Extruded polycarbonate,;System Wattage (for 4ft luminaire) at maximum output, steady state in range of 12- 15W; suitable 24VDC power supply and control module,Lumens Output more then 250 lumens,Lens -Translucent plastic for direct viewing;Viewing angle range - 150° to 180° x 90° to 120° ; 50000 burning hours;IP66 and IK08 protection.	The item no 2 should be removed and must be part of the light fixture itself if any bidder intends to give, this item is the product of Philips Color Kinetics only. No other company has this product in their range for data and power integration.	No change is tender specification.  This product is not specific to any one brand. Catalogues of few brands have been considered while framing the BOQ.

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8	Page 9-20,	Appendix 1, Technical Forms, ITEMS 1-14	Soft Copy of Catalogues, Polar Diagrams, IES Files along with Link of the official web page of Luminaries. Test Certificat - relevant BIS R Number, LM 79, IEC 60598, LM 80 test certificates of the luminaries submission is mandatory.	Since the products are specified from Philips Color Kinetics, there is no point in asking for the official webpage of the same luminaires as all the brands may have to give a special customized product	Link of official webpage of Luminaries' has been deleted. Please refer corrigendum.
9	Page 4	2.3, Table of Milestones, Last line	Total Cumulative Time: 30 days	Supply Installation Testing and Commissioning of the entire work is given as 30 days; this is only possible in case where the stock is available with the lighting company. However, the BOQ given in the tender has specialized products which has higher lead time. Therefore, we request to give extension for the entire job to 60 days.	No change
10	Page 8	Appendix 3: List of Approved Makes	Various types of LED light fittings: Osram / Signify / Wipro / Color Kinetics / Traxon	List of makes specified in the tender are ambiguous as described below: a. Signify and Color Kinetics is same brand b. Osram and Traxon is same brand c. Wipro is not much dominant in this segment  We request to allow the open participation for the brands who has this product portfolio of this range	Please refer corrigendum
11	General		Not specified	If the BOQ of the project has been freeze, the design intent of the project must be transparent for the bidders.	The design simulation is provided in the corrigendum.
12	BOQ	1.1	Supply & Installation of Four Feet Length color and high-quality RGBW / RGBA LED linear grazing luminaire with housing material of Extruded anodized aluminium, Lens -Clear UV-protected polycarbonate, system wattage not exceeding 80W and system lumen output of not less than 2000 lumens with all channel on. Luminaire should be capable of producing dynamic color changing light by DMX/Ethernet based control. Fixture shall be available with architectural optics with choice of beam angles of 5°-10° x 5°-10°, 5°-10° x 50°-60°, 10°-15° x 25°-30°, 25°-30° x 55°-60°, and 55°-60° x 25°-30°. Luminaire should be capable of operating at line voltage without any separate power supply from 100-277 V AC. Lifetime should be at least 50,000 burning hours, IP66 protection. Fixture shall equipped with mechanical impact of minimum IK08.	All the lighting companies except Philips and Osram have the linear wall washer in the length of 500mm or 1000mm. Item should be 1000-1200mm and wattage should be 80-100W	A +10% tolerance in maximum wattage limit has been included in the corrigendum.  Length of fixture within 1000-1250 mm range will be acceptable.  Please refer corrigendum.
13	BOQ		BOQ	What about supply and panel, it will come from existing MCB/Panel or new one	Shall be determined as per site condition. No extra payment will be made for this.
14	General		General query	Please check supply they are design 100-277 volt. Light are coming on these supply a required any servo stabilizer	Servo stabilizer is not considered in the BOQ. However, if the bidder feels that servo stabiliser is required for the performance of their products, then they should supply this item. No extra payment will be made for this.
15	General		General query	Conducting for lighting cable will be on surface or recess	Will be determined as per site condition.
16	Page 2	2.1, Sr (1)	Similar Work means:- Supply, Installation, Testing, Commissioning, of Façade lighting of building(s) / monument(s) / bridge(s) / temple(s) using RGB/RGBA/RGBW LED luminaires for any Central Govt./ State Govt. / Public Sector Undertaking, in the last five years from the date of opening of tender bid.	2.2.1 similar work should be considered as SITC of street lighting work, High mast lighting, city beautification, landscaping lighting, façade lighting to encourage healthy end wide range of competition	Similar work has been amended as:- Supply, Installation, Testing, Commissioning, of Façade lighting of building(s) / monument(s) / bridge(s) / temple(s) LED luminaires for any Central Govt./ State Govt. / Public Sector Undertaking, in the last five years from the date of opening of tender bid.  Please refer corrigendum.
17	Page 8	Appendix 3: List of Approved Makes	Various types of LED light fittings: Osram / Signify / Wipro / Color Kinetics / Traxon	Please add our company name in your make list. We would like to assure to offer best quality products & we also committed to deliver the our best as this is a very prestigious project for us & we would like to put our best effort	Please refer corrigendum



18	Page 4	4.1	Similarly, for operation and comprehensive maintenance, the payment will be made on percentage basis after each successful completed maintenance year (reckoned from completion of SITC work) as indicate under:-	Herein kindly elaborate the scope of Operation and comprehensive maintenance	Please refer corrigendum
19	Page 4	2.3, Table of Milestones, Last line	Total Cumulative Time: 30 days	Project Completion time is excessively less, kindly extend the time up to 4 months	No change
20	Page 3	2.2	The LM79 and IEC 60598 Test Reports must be issued from a recognized Third party NABL/ International laboratory only. In-house LM79 and IEC 60598 test reports of manufacturers shall not be considered.	LM 79 and IEC test reports of luminaries shall be submitted after receipt of LOA and before supply of material	No change
21	Page 4	4	Payment Terms On supplying installation testing & commissioning of material: 100%  Note: 10% deduction of the above shall be made for AMC	Payment terms should be revised at 70% against supply of material including full GST. 30% against erection and commissioning of material including full GST. 5% PBG of total work value valid for 3 yrs.  In the event of cancellation of order by client or not lifting of the material on payment balance consideration within 21 days from the date of intimation of readiness of the material, you will be charged order cancellation charges at 12% of the order value (including 18 GST) and the same will be adjusted against the advance payment made	Please refer corrigendum
22	Page 8	Appendix 3: List of Approved Makes	Various types of LED light fittings: Osram / Signify / Wipro / Color Kinetics / Traxon	Bajaj Make need to be incorporated for Luminaries	Please refer corrigendum
23	BOQ	General		All luminaires specified are IP65 rated. We can offer Hem-Nord make luminaires	No change
24	BOQ	General Clarification		BOQ & Technical Specification of luminaires do no match completely. Please suggest which one to follow	Please refer corrigendum
25	Page 9 to 20	Technical Forms: Items No 1 - 14	Peak Intensity, Centre Beam Lux Level	Peak Intensity & Centre Beam Lux level will be variable depending on the variation of beam angle. These values may not be specified.	As per tender specification only
26	Page 9, 10, 11, 12, 13, 14, 16	Technical Forms: Items No 1, 2, 3, 4, 5, 6, 8	Operating Voltage 100-277 VAC	please allow DC24v with suitable driver	Accepted. Please refer corrigendum
27	Page 9, 10, 18	Technical Forms: Items No 1, 2, 10	IK Rating	please allow IK07	As per tender specification only
28	Page 11	Technical Forms: Items No 3	Body: Extruded Anodized Aluminium	please allow die-cast Aluminium	Accepted. Please refer corrigendum
29	Page 12	Technical Forms: Items No 4		Please specify colour of light - RGB/RGBW/Static	Refer to BOQ item 1.4
30	Page 13	Technical Forms: Items No 5	Maximum wattage: 10 watts	please allow 12 watt.	A +10% tolerance in maximum wattage limit has been included in the corrigendum.
31	Page 13, 14	Technical Forms: Items No 5, 6	CRI: 80	please allow CRI 70	As per tender specification only
32	BOQ, Page 15	BOQ item 1.7, Technical Forms: Items No 7	Data Formatting Device	This is not required in our proposed system. Our control system requires DMX Splitters alongwith controllers. Data Formatting Device ot reqed. This is a very specific requirement for any particular make. Bajaj proposes required quantity of DMX Splitters in stead of this item.	Submission of Technical Form for Item No 7 (BOQ Item 1.7) and its supporting documents is not required if the bidder does not require to supply data formatting devices. Please refer corrigendum






33	Page 15	Technical Forms: Items No 8	Content Program Controller	Number of channels in each nodes are not specified. Please include the following For 3 channel nodes, the number of nodes may be 341. For 4 channel nodes, the number of nodes may be 256	As per tender specification only
34	Page 16	Technical Forms: Item No 8	Input Voltage: 100-240 VAC	compatible with DC power adaptor	Accepted. Please refer corrigendum
35	Page 17	Technical Forms: Item No 9	Power consumption: 33 watt	please allow 36 watt	A +10% tolerance in maximum wattage limit has been included in the corrigendum.
36	Page 17	Technical Forms: Item No 9	Efficacy > 120 lm/w	please allow >80 lm/w	As per tender specification only
37	Page 18	Technical Forms: Item No 10	Viewing angle range	It should be wide diffused > 100-120 degree in case of translucent plastic diffuser as specified	As per tender specification only
38	Page 20	Technical Forms: Item No 14	Power consumption: 55 watt	In the BOQ sheet it is mentioned as 100 watt. Please confirm	Amendment has been made in corrigendum
39	Page 20	Technical Forms: Item No 14	Distribution: Display effect built in	Please explain the statement inconjunction with the luminaires mounting and application area. Is it a Gobo projector?	Amendment has been made in corrigendum
40	General	General		Detailed building/area-wise scope & drawings (in autocad format) with respective simulations are required with application installation area wise segregation of item quantities in order to understand cable/accessories/controller etc.	The design simulation is provided in the corrigendum.
41	General	General		Clear façade of buildings, structures and church will be made available to the bidder during execution. Any necessary permissions, required during execution of work will be made available to bidder.	Necessary permissions shall be made available by MDDA
42	BOQ	Clarification		Item no 2.7 is missing in BOQ. Need to clarify	It is due a typing error. Kindly ignore.
43	BOQ	2.5	Supplying / Drawing of 1 run UTP cat-6 A cable i/c making connection etc as required	Please allow DMX control cable as per our proposed scheme in place of Cat 6 cable	As per tender specification only
44	BOQ	Overall		Please clarify methodology, if there is change in respective quantities during execution, as per application	There will be no change in BOQ qty during work execution unless approved by Engineer-in Charge / VC MDDA.
45	BOQ	Clarification		No power supply panels have been mentioned in BOQ. Please share the detail specification with respective quantities & their respective areas. Also confirm if the scope of bidder starts from power supply panel onwards.	Will be determined as per site condition. No extra payment shall be made for this.
46	Page 20	Technical Forms: Item No 14		Please clarify mentioned item w.r.t BOQ item including respective quantity and specific requirement	Amendment has been made in corrigendum
47	Page 8	Appendix 3: List of Approved Makes	Various types of LED light fittings: Osram / Signify / Wipro / Color Kinetics / Traxon	We request to add our BRAND (INSTAPOWER) in the list of approved brands in order to compete in the tender	Please refer corrigendum
48	Page 2	2.1, Sr (1)	Documentary Evidence  1.The bidder shall provide work completion certificate which clearly mentions the amount of work done, actual date of completion, as well as the scope of work.  2.On-going Work/ Partial Work Completion shall not be considered.	The completion certificate of our ongoing work as per equivalent of the MDDA tender value should be accepted as we have completed the work equivalent to the tender value for which we have the desired certificate.	No change.

49	Page 2	2.1, Sr (1)	Similar Work means:- Supply, Installation, Testing, Commissioning, of Façade lighting of building(s) / monument(s) / bridge(s) / temple(s) using RGB/RGBA/RGBW LED luminaires for any Central Govt./ State Govt. / Public Sector Undertaking, in the last five years from the date of opening of tender bid.	The Similar Work definition should include any colour lighting which is building aesthetics. It should not be restricted to RGB/RGBW as there are other colour lights in the tender	Accepted. "Similar work has been amended as:- Supply, Installation, Testing, Commissioning, of Façade lighting of building(s) / monument(s) / bridge(s) / temple(s) LED luminaires for any Central Govt./ State Govt. / Public Sector Undertaking, in the last five years from the date of opening of tender bid.  Please refer corrigendum."
50	Page 3	2.2	The LM79 and IEC 60598 Test Reports must be issued from a recognized Third party NABL/ International laboratory only. In-house LM79 and IEC 60598 test reports of manufacturers shall not be considered.	In the PQ criteria, LM 79 report is asked during the stage of tender. As these are specialized light fittings with particular beam angles, we can submit these reports from the LABORATORY if awarded the tender. In the meantime we can submit the LM 79 report (for reference) from our laboratory which is approved by Ministry of Science & Technology. The LM 79 reports will not mean anything at tender stage as we are not sure of the optics to be used which will change the lumen distribution. Hence, the LM 79 and any other report should be submitted once the bidder is selected.	No change.
51	General	General		We wish to state that most of the suppliers whose BRANDS are mentioned are importing lights as these are not manufactured in India, whereas we have manufacturing experience	BIS certification is mandatory for lighting products
52	Page 9-20,	Appendix 1, Technical Forms: ITEMS 1-14	Soft Copy of Catalogues, Polar Diagrams, IES Files along with Link of the official web page of Luminaries. Test Certificat - relevant BIS R Number, LM 79, IEC 60598, LM 80 test certificates of the luminaries submission is mandatory.	We can provide the IES Files, Polar Curve etc but it is not on our website. We can send it once the product gets designed to suit the requirement as there are many optics mentioned but at the time of execution we have to choose one optics depending upon the site.	Link of official webpage of Luminaries' has been deleted.  Please refer corrigendum.
53	Page 20	Technical Forms: Item No 14	Power consumption: 55 watt	The Tech Bid Item No 14 and Price Bid BOQ (1.40, wattage is same but at one place RGB is mentioned and another place 4000K is mentioned. Which is the correct CCT?	Amendment has been made in corrigendum
54	Page 19	Technical Forms: Item No 13	Luminaries - Direct View 30 Watt	The Tech Bid Item No 13 is not clear as to what type of light it is, whether it is focus, flood or linear type?	These are high powered exterior-rated RGB LED points (dots) suited for a range of direct view applications.
55	Page 18	Technical Forms: Item No 10	Body of fittings: Extruded Polycarbonate	The Tech Bid Item No 10 states that the body should be extruded polycarbonate but all LED Fittings are extruded Aluminium. Hence, this needs to be changed.	Amendment has been made in corrigendum
56	Page 2	2.1, Sr (1)	The Bidder (Lead bidder or its partner in case of consortium) should have successfully executed:	We are Lead partner in tender and we are going to consortium to any other company for submit the similar work completion certificate of consortium. Please clarify, you will accept the tender or not.	Refer to Page 2, Section 2.1, Sr (1) of NIT
57	Page 2	2.1, Sr (2)	The Bidder (Lead bidder in case of consortium) should have achieved a Minimum Annual Average Financial Turnover of atleast 100% of the estimate value of the tender, in the last 3 years ending March 31 (2016-17, 2017-18, 2018-19).	The Bidder (lead partner in case of consortium) should have achieved a minimum Annual Average Turnover Financial Turnover of atleast 100% of the estimate value of the tender, in the last three years ending March 31 (2016-17, 2017-18, 2018-19). We are lead partner and our turnover is average last three years is Rs 85.00 Lcs, we are goes to consortium any other partner and partner average turnover is Rs 4.50 Cr. If we are eligible for submission of tender as a Lead partner.	Refer to Page 2, Section 2.1, Sr (2) of NIT



58	BOQ	1.8	Supply & Installation of Content Program Controller with features of Single DMX ports control minimum 300 light addresses, Works as a stand-alone or computer-driven controller, Secure Digital (SD) card drive for flexible show storage, USB 2.0 interface for downloading shows and configuring from attached PC, Flexible, adaptable mounting options, Should be provided with light show authoring software, Direct line voltage power supports 100 —240VAC, Minimum Five pre configurable effects :Using light authoring software to select from five pre defined effects, adjust effect settings such as color, speed, and brightness.	There are 7 DMX controllers required as per the BOQ which means there are seven different sites/locations. However there is no mention of location wise RGBW Light Fixtures breakup to plan the DMX System which is must for the designing part.	Key site map and design simulation are provided in the corrigendum.
59	General	General		It is not mentioned that on what surface the light fixture shall be mounted.	As per tender specification only
60	BOQ	2.3	Supply & Installation of daylight visible, exterior-rated RGB LED point suited for a range of direct-view applications. Housing Material Die-cast aluminium with silver gray powder coated finish, Lens Clear UV-protected polycarbonate, Luminaire should have viewing Angle 120°-130° (clear flat lens) with luminance in minimum Nits 25,000 cd/m2 with minimum system lumens of 750, Lifetime of 50,000 hours L70, Equipped with LED Channels Red/Green/Blue for color output. Electrical Input Voltage 100 to 240 VAC, auto-switching, 50/60 Hz via Data formatting device, Luminaire should have Power Consumption of maximum 30 Watt, with total IP66 protection.	An Exterior Rated RGB LED Point Daylight Visible fixture is required. More details is required as this statement does not give the clear idea of the type of light fixture.	These are high powered exterior-rated RGB LED points (dots) suited for a range of direct view applications. These are media dots which can be viewed from long distances.
61	Page 3	2.2	The LM79 and IEC 60598 Test Reports must be issued from a recognized Third party NABL/ International laboratory only. In-house LM79 and IEC 60598 test reports of manufacturers shall not be considered.	IS:10322 is equivalent to IEC-60598. It is requested to consider the IS:10322 reports against IEC-60598.	IEC 60598 / IS:10322 is acceptable
62	Page 3	2.2	The LM79 and IEC 60598 Test Reports must be issued from a recognized Third party NABL/ International laboratory only. In-house LM79 and IEC 60598 test reports of manufacturers shall not be considered.	Manufacturers should be allowed to submit the LM79 report at the time of supply.	No change.




