

MUMBAI METRO RAIL CORPORATION LIMITED						
Pre Bid Queries Reply						
<b>Name of Work:</b>	Implementation of Multi Modal Integration Facilities at Six Underground Metro Stations viz. Dharavi, Shitala Devi Mandir, Dadar, Siddhivinayak, Worli & Acharya Atre Chowk of Mumbai Metro Line-3 project.					
<b>Tender Ref. No.</b>	MMRC/Planning/NIT/MMI/2025/01					
<b>Tender ID :</b>	2025_MMRCL_228332_1					
Sr. No.	Bidders Name	Bidders Query	Ref.	Page no	Tender Conditions under no.	MMRCL Remark
1	M/s. Orafol India Pvt. Ltd.	As per IRC: 67 2022, the certification and test reports shall be for all the traffic colours like Blue, Green, Yellow, White and Red. The same has not been specified in this point. Kindly include these colours in the demand for the test reports.	Point B, (C),	7	A certificate of having the sheeting tested for coefficient of retro reflection, daytime color and luminance, shrinkage, flexibility, liner removal, adhesion, impact resistance, specular gloss and fungus resistance, 3 years outdoor weathering and its having passed these tests shall be obtained from International and Indian Government Laboratory/Institute by the sheeting manufacturer. Alternatively, a certificate conforming to ASTM Specification (D 4956-09) on artificial accelerated weathering requirements from a reputed laboratory in India can be accepted provisionally. In such a situation, the OEM of the retro reflective sheeting must submit a performance guarantee from the nationalized bank for the full tender value which would be released after receipt of certificate meeting the requirement of three years outdoor weathering of the sheeting.	Bidder shall refer IRC- 67 Of 2022 having clause 6.7 for retro reflective sheeting, which is self explanatory. Hence, your suggested correction can not be considered.
		The product Flexible Median Marker is a Registered Patent of 3M. Even the name of the product is registered. IRC:79 2019 has replaced the name and specifications of this product and the same shall be considered in this tender as well, otherwise only 3M and their converters will be eligible for the bidding in this tender.	Point B, (F),	7	The bidder shall be able to provide two years of prequalification warranty for road furniture such as Road studs/Cat's eye/Flexible median marker from the manufacturer of road furniture. The test report of all the colours of Road Studs as per IRC 35-2015 clause 5.4 tested in accordance with IRC 35-2015 section 5 clause 5.1.2 (The Clause 804 of 'Specification for Road and Bridge Works' by the Ministry of Road Transport & Highways (MORTH) and ASTM D4280-04 shall be referred for technical specification of road studs) shall be submitted.	The correction suggested for change in name of flexible median marker as marker for delation of median is considered as per amendment carriedout in IRC 79 of 2019 effective from 01.10.2023. However, item description in tender BOQ may not be changed until correction from BMC authority.
		This interpretation of IRC:67 2022 is wrongly written As per IRC:67 2022. In case of digital printing, the signs shall be manufactured using a system of matched components or reflective sheeting and overlay films and digital inks manufactured and supplied by the reflective sheeting manufacturer.	Point B, (g)	8	For digital printing, the signs shall be manufactured using a system of matched components of reflective sheeting and overlay films and digital inks approved by the reflective sheeting manufacture. Digitally printed traffic color (red, blue, green, yellow, orange and brown) areas on white sheeting shall not be having less than 70 percent of the value of the coefficient of retro reflection established for its color and type of sheeting as given in Table 6.9 of IRC 67 of 2022.	Bidder shall refer IRC- 67 of 2022 clause No.6.8 for border and messages " In case of digital printing, the signs shall be manufactured using a system of matched components of reflective sheeting and overlay films and digital inks manufactured and supplied by the reflective sheeting manufacture. The digital printer and digital ink shall be approved by the reflective sheeting manufacture. Digitally printed traffic color (red, blue, green, yellow, orange and brown) areas on white sheeting shall not be having less than 70 percent of the value of the coefficient of retro reflection established for its color and type of sheeting as given in Table 6.9 of IRC 67 of 2022 ". which is self explanatory .
		This point has no relevance in any government guidelines and is only used to monopolize the tender for a single sheeting manufacturer. There are no VOC emissions in road signs and recently IOCL has also removed these specs from their tender conditions. Neither Indian Road Congress nor any other central guideline supports this clause.	Point B, (h)	8	The bidder shall submit the declaration from manufacturer of retro reflective sheeting that the inks used for printing shall be certified for low volatile organic compound (VOC) emission conforming to UL 2801 and UL 2818 (standard for sustainability for printing inks) shall be submitted along with Green Guard Certificate.	As MMRCL is using BMC USOR 2023 & tender for this tender , The required condition shall be changed only after correction from BMC authority . Hence , this condition can not be altered at this stage. Hence tender condition prevails.
		The Litigation History must also include any current or past Litigation between the reflective Sheeting Manufacturer and any state or central government body or any PSU. This will ensure that the vendors who were involved but not convicted under any kind of corrupt practices shall be debarred from the tender. Recently in the previous year UP state government has released such tenders where they have barred the OEMs/ Bidders who had any past litigation with any government body in the last 5-7 years.	Point No. 7	8	Litigation History" - If there is no Litigation History, the bidder shall specifically mention that there is no Litigation History against him. In case there is Litigation History –Litigation History must cover – Any action of Blacklisting, debarring, banning, suspension, deregistration and cheating with MCGM, State Govt., Central Govt., or any authority under State or Central Govt./Govt organization initiated against company, firm, directors, partners or authorized signatory shall be disclosed for last 5 years from the date of submission of bid. Also, bidder shall disclose the litigation history of last 5 years from the date of submission of bid about any action like show cause issued, blacklisting, debarring, banning, suspension, deregistration and cheating with any Govt /State Govt/ Central Govt / Semi Govt against the company, firm, directors, partners or authorized signatory .	No change ,hence tender condition prevails .

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		As per IRC: 67 2022 and IRC: 35 2015, there is no requirement given for the OEM supplying the road furniture to have their own testing lab. In-house lab will be conflict of interest, and no company will test and fail their own product. All the tests given in the IRC guidelines should be conducted by a Government/ NABL accredited lab. The mention of only two labs ARAI and CRRI ( for sheeting) makes the tender condition very specific suiting only 1 Brand/ OEM. This is clearly violation of the fair tendering process.	<b>Technical Specifications for Type XI sheeting</b>	<b>165</b>	OEM supplying road furniture (RPM/Median Marker) shall have their own facility of government approved R&D laboratory of their own registered in India. All retro reflective sheeting shall be tested as per clause 6.7 of IRC 67-2012 in government approved laboratory or ARAI pune / CRRI Delhi. Contractor shall also submit lot certificate from the retro reflective sheeting manufacturer for the supplied lot.	No change ,hence tender condition prevails .
		This clause is contradictory to the previous clauses demanding the test reports for reflective sheeting. As per IRC: 67 2022 only coefficient of retro reflection, daytime colour and luminance, shrinkage, flexibility, liner removal, adhesion, impact resistance, specular gloss and fungus resistance, 3 years outdoor weathering tests are to be requested from International/ Indian Labs. There of separate third-party test only for retroreflection and colorimetry. This is specifically given to monopolize the tender as one of the Brand has the test facility for testing these 2 parameters and this clause will benefit them to eliminate the other brands and bidders.	<b>Point 4</b>	<b>166</b>	A certified copy of test reports from an independent test laboratory confirming to clause 6.4 of IRC 67-2012 including 3 years outdoor weather exposure reports forthe retro reflective sheeting offered attested by the retro reflective sheeting manufacturer & shall be submitted by the bidder during the bid submission. Also a third party test report fromIndia for retro reflection and colorimetry of retro reflective sheeting shall be submitted by the bidder.	Testing of retro reflective sheeting will be as per IRC-67 of 2022 and ASTM D4956 . Testing of reto reflective sheeting shall carried out through any Government Approved Lab/ NABL Accredited Lab.
		As mentioned above this clause has no relevance in road signs and hence must be removed. This is only used to create monopoly in tenders.	<b>BOQ of signages</b>		The message (legends, letters, numerals, logos etc) along with the boards to be digitally printed on latex or equivalent platform using ink approved by the sheeting manufacturer conforming to UL 2801 and UL 2818.	As MMRCL is using BMC tender and USOR 2023 for this tender , The required condition shall be changed only after correction from BMC authority will be obtained . Hence , this BOQ discription can not be altered at this stage.
<b>2</b>	<b>M/s. The Shivam Enterprises</b>	As per IRC: 67 2022, the certification and test reports shall be for all the traffic colours like Blue,Green, Yellow, White and Red. The same has not been specified in this point. Kindly include these colours in the demand for the test reports.	<b>Point B, (C),</b>	<b>7</b>	A certificate of having the sheeting tested for coefficient of retro reflection, daytime color and luminance, shrinkage, flexibility, liner removal, adhesion, impact resistance, specular gloss and fungus resistance, 3 years outdoor weathering and its having passed these tests shall be obtained from International and Indian Government Laboratory/Institute by the sheeting manufacturer. Alternatively, a certificate conforming to ASTM Specification (D 4956-09) on artificial accelerated weathering requirements from a reputed laboratory in India can be accepted provisionally. In such a situation, the OEM of the retro reflective sheeting must submit a performance guarantee from the nationalized bank for the full tender value which would be released after receipt of certificate meeting the requirement of three years outdoor weathering of the sheeting.	Bidder shall refer IRC- 67 Of 2022 having clause 6.7 for reto reflective sheeting, which is self explanatory.Hence, your suggested correction can not be considered.
		The product Flexible Median Marker is a Registered Patent of 3M. Even the name of the product is registered. IRC:79 2019 has replaced the name and specifiions of this product and the same shall be considered in this tender as well, otherwise only 3M and their converters will be eligible for the bidding in this tender.	<b>Point B, (F),</b>	<b>7</b>	The bidder shall be able to provide two years of prequalification warranty for road furniture such as Road studs/Cat's eye/Flexible median marker from the manufacturer of road furniture. The test report of all the colours of Road Studs as per IRC 35-2015 clause 5.4 tested in accordance with IRC 35-2015 section 5 clause 5.1.2 (The Clause 804 of 'Specification for Road and Bridge Works" by the Ministry of Road Transport & Highways (MORTH) and ASTM D4280-04 shall be referred for technical specification of road studs) shall be submitted.	The correction suggested for change in name of flexibale median marker as marker for delation of median is considered as per amendment carriedout in IRC 79 of 2019 effective from 01.10.2023. However, item description in tender BOQ may not be changed untill correction from BMC authority.
		This interpretation of IRC:67 2022 is wrongly written As per IRC:67 2022, In case of digital printing, the signs shall be manufactured using a system of matched components or reflective sheeting and overlay films and digital inks manufactured and supplied by the reflective sheeting manufacturer.	<b>Point B, (g)</b>	<b>8</b>	For digital printing, the signs shall be manufactured using a system of matched components of reflective sheeting and overlay films and digital inks approved by the reflective sheeting manufacture. Digitally printed traffic color (red, blue, green, yellow, orange and brown) areas on white sheeting shall not be having less than 70 percent of the value of the coefficient of retro reflection established for its color and type of sheeting as given in Table 6.9 of IRC 67 of 2022.	Bidder shall refer IRC- 67 of 2022 clause No.6.8 for border and messages " In case of digital printing, the signs shall be manufactured using a system of matched components of reflective sheeting and overlay films and digital inks manufactoryed and supplied by the relective shetting manufactur .The digital printer and digital ink shall be approved by the reflective sheeting manufacture. Digitally printed traffic color (red, blue, green, yellow, orange and brown) areas on white sheeting shall not be having less than 70 percent of the value of the coefficient of retro reflection established for its color and type of sheeting as given in Table 6.9 of IRC 67 of 2022 ". which is self explonatory .

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		This point has no relevance in any government guidelines and is only used to monopolize the tender for a single sheeting manufacturer. There are no VOC emissions in road signs and recently IOCL has also removed these specs from their tender conditions. Neither Indian Road Congress nor any other central guideline supports this clause.	Point B, (h)	8	The bidder shall submit the declaration from manufacturer of retro reflective sheeting that the inks used for printing shall be certified for low volatile organic compound (VOC) emission confirming to UL 2801 and UL 2818 (standard for sustainability for printing inks) shall be submitted along with Green Guard Certificate.	As MMRCL is using BMC USOR 2023 & tender for this tender , The required condition shall be changed only after correction from BMC authority . Hence , this condition can not be altered at this stage. Hence tender condition prevails.
		The Litigation History must also include any current or past Litigation between the reflective Sheeting Manufacturer and any state or central government body or any PSU. This will ensure that the vendors who were involved but not convicted under any kind of corrupt practices shall be debarred from the tender. Recently in the previous year UP state government has released such tenders where they have barred the OEMs/ Bidders who had any past litigation with any government body in the last 5-7 years.	Point No. 7	8	Litigation History" - If there is no Litigation History, the bidder shall specifically mention that there is no Litigation History against him. In case there is Litigation History –Litigation History must cover – Any action of Blacklisting, debarring, banning, suspension, deregistration and cheating with MCGM, State Govt., Central Govt., or any authority under State or Central Govt./Govt organization initiated against company, firm, directors, partners or authorized signatory shall be disclosed for last 5 years from the date of submission of bid. Also, bidder shall disclose the litigation history of last 5 years from the date of submission of bid about any action like show cause issued, blacklisting, debarring, banning, suspension, deregistration and cheating with any Govt /State Govt/ Central Govt / Semi Govt against the company, firm, directors, partners or authorized signatory .	No change ,hence tender condition prevails .
		As per IRC: 67 2022 and IRC: 35 2015, there is no requirement given for the OEM supplying the road furniture to have their own testing lab. In-house lab will be conflict of interest, and no company will test and fail their own product. All the tests given in the IRC guidelines should be conducted by a Government/ NABL accredited lab. The mention of only two labs ARAI and CRRI ( for sheeting) makes the tender condition very specific suiting only 1 Brand/ OEM. This is clearly violation of the fair tendering process.	Technical Specifications for Type XI sheeting	165	OEM supplying road furniture (RPM/Median Marker) shall have their own facility of government approved R&D laboratory of their own registered in India. All retro reflective sheeting shall be tested as per clause 6.7 of IRC 67-2012 in government approved laboratory or ARAI pune / CRRI Delhi. Contractor shall also submit lot certificate from the retro reflective sheeting manufacturer for the supplied lot.	No change ,hence tender condition prevails .
		This clause is contradictory to the previous clauses demanding the test reports for reflective sheeting. As per IRC: 67 2022 only coefficient of retro reflection, daytime colour and luminance, shrinkage, flexibility, liner removal, adhesion, impact resistance, specular gloss and fungus resistance, 3 years outdoor weathering tests are to be requested from International/ Indian Labs. There of separate third-party test only for retroreflection and colorimetry. This is specifically given to monopolize the tender as one of the Brand has the test facility for testing these 2 parameters and this clause will benefit them to eliminate the other brands and bidders.	Point 4	166	A certified copy of test reports from an independent test laboratory confirming to clause 6.4 of IRC 67-2012 including 3 years outdoor weather exposure reports for the retro reflective sheeting offered attested by the retro reflective sheeting manufacturer & shall be submitted by the bidder during the bid submission. Also a third party test report from India for retro reflection and colorimetry of retro reflective sheeting shall be submitted by the bidder.	Testing of retro reflective sheeting will be as per IRC-67 of 2022 and ASTM D4956 . Testing of retro reflective sheeting shall be carried out through any Government Approved Lab/ NABL Accredited Lab.
		As mentioned above this clause has no relevance in road signs and hence must be removed. This is only used to create monopoly in tenders.	BOQ of signages		The message (legends, letters, numerals, logos etc) along with the boards to be digitally printed on latex or equivalent platform using ink approved by the sheeting manufacturer conforming to UL 2801 and UL 2818.	As MMRCL is using BMC tender and USOR 2023 for this tender , The required condition shall be changed only after correction from BMC authority will be obtained . Hence , this BOQ description can not be altered at this stage.
3	M/s. K -Tek Corporation	As per IRC: 67 2022, the certification and test reports shall be for all the traffic colours like Blue, Green, Yellow, White and Red. The same has not been specified in this point. Kindly include these colours in the demand for the test reports.	Point B, (C),	7	A certificate of having the sheeting tested for coefficient of retro reflection, daytime color and luminance, shrinkage, flexibility, liner removal, adhesion, impact resistance, specular gloss and fungus resistance, 3 years outdoor weathering and its having passed these tests shall be obtained from International and Indian Government Laboratory/Institute by the sheeting manufacturer. Alternatively, a certificate conforming to ASTM Specification (D 4956-09) on artificial accelerated weathering requirements from a reputed laboratory in India can be accepted provisionally. In such a situation, the OEM of the retro reflective sheeting must submit a performance guarantee from the nationalized bank for the full tender value which would be released after receipt of certificate meeting the requirement of three years outdoor weathering of the sheeting.	Bidder shall refer IRC- 67 Of 2022 having clause 6.7 for retro reflective sheeting, which is self explanatory. Hence, your suggested correction can not be considered.

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		The product Flexible Median Marker is a Registered Patent of 3M. Even the name of the product is registered. IRC:79 2019 has replaced the name and specifications of this product and the same shall be considered in this tender as well, otherwise only 3M and their converters will be eligible for the bidding in this tender.	Point B, (F),	7	The bidder shall be able to provide two years of prequalification warranty for road furniture such as Road studs/Cat's eye/Flexible median marker from the manufacturer of road furniture. The test report of all the colours of Road Studs as per IRC 35-2015 clause 5.4 tested in accordance with IRC 35-2015 section 5 clause 5.1.2 (The Clause 804 of 'Specification for Road and Bridge Works" by the Ministry of Road Transport & Highways (MORTH) and ASTM D4280-04 shall be referred for technical specification of road studs) shall be submitted.	The correction suggested for change in name of flexible median marker as marker for delation of median is considered as per amendment carriedout in IRC 79 of 2019 effective from 01.10.2023. However, item description in tender BOQ may not be changed untill correction from BMC authority.
		This interpretation of IRC:67 2022 is wrongly written As per IRC:67 2022, In case of digital printing, the signs shall be manufactured using a system of matched components or reflective sheeting and overlay films and digital inks manufactured and supplied by the reflective sheeting manufacturer.	Point B, (g)	8	For digital printing, the signs shall be manufactured using a system of matched components of reflective sheeting and overlay films and digital inks approved by the reflective sheeting manufacture. Digitally printed traffic color (red, blue, green, yellow, orange and brown) areas on white sheeting shall not be having less than 70 percent of the value of the coefficient of retro reflection established for its color and type of sheeting as given in Table 6.9 of IRC 67 of 2022.	Bidder shall refer IRC- 67 of 2022 clause No.6.8 for border and messages " In case of digital printing, the signs shall be manufactured using a system of matched components of reflective sheeting and overlay films and digital inks manufacturyed and supplied by the refelective shetting manufactur .The digital printer and digital ink shall be approved by the reflective sheeting manufacture. Digitally printed traffic color (red, blue, green, yellow, orange and brown) areas on white sheeting shall not be having less than 70 percent of the value of the coefficient of retro reflection established for its color and type of sheeting as given in Table 6.9 of IRC 67 of 2022 ". which is self explanatory .
		This point has no relevance in any government guidelines and is only used to monopolize the tender for a single sheeting manufacturer. There are no VOC emissions in road signs and recently IOCL has also removed these specs from their tender conditions. Neither Indian Road Congress nor any other central guideline supports this clause.	Point B, (h)	8	The bidder shall submit the declaration from manufacturer of retro reflective sheeting that the inks used for printing shall be certified for low volatile organic compound (VOC) emission confirming to UL 2801 and UL 2818 (standard for sustainability for printing inks) shall be submitted along with Green Guard Certificate.	As MMRCL is using BMC USOR 2023 & tender for this tender , The required condition shall be changed only after correction from BMC authority . Hence , this condition can not be altered at this stage. Hence tender condition prevails.
		The Litigation History must also include any current or past Litigation between the reflective Sheeting Manufacturer and any state or central government body or any PSU. This will ensure that the vendors who were involved but not convicted under any kind of corrupt practices shall be debarred from the tender. Recently in the previous year UP state government has released such tenders where they have barred the OEMs/ Bidders who had any past litigation with any government body in the last 5-7 years.	Point No. 7	8	Litigation History" - If there is no Litigation History, the bidder shall specifically mention that there is no Litigation History against him. In case there is Litigation History –Litigation History must cover – Any action of Blacklisting, debarring, banning, suspension, deregistration and cheating with MCGM, State Govt., Central Govt., or any authority under State or Central Govt./Govt organization initiated against company, firm, directors, partners or authorized signatory shall be disclosed for last 5 years from the date of submission of bid. Also, bidder shall disclose the litigation history of last 5 years from the date of submission of bid about any action like show cause issued, blacklisting, debarring, banning, suspension, deregistration and cheating with any Govt /State Govt/ Central Govt / Semi Govt against the company, firm, directors, partners or authorized signatory .	No change ,hence tender condition prevails .
		As per IRC: 67 2022 and IRC: 35 2015, there is no requirement given for the OEM supplying the road furniture to have their own testing lab. In-house lab will be conflict of interest, and no company will test and fail their own product. All the tests given in the IRC guidelines should be conducted by a Government/ NABL accredited lab. The mention of only two labs ARAI and CRRRI ( for sheeting) makes the tender condition very specific suiting only 1 Brand/ OEM. This is clearly violation of the fair tendering process.	Technical Specifications for Type XI sheeting	165	OEM supplying road furniture (RPM/Median Marker) shall have their own facility of government approved R&D laboratory of their own registered in India. All retro reflective sheeting shall be tested as per clause 6.7 of IRC 67-2012 in government approved laboratory or ARAI pune / CRRRI Delhi. Contractor shall also submit lot certificate from the retro reflective sheeting manufacturer for the supplied lot.	No change ,hence tender condition prevails .
		This clause is contradictory to the previous clauses demanding the test reports for reflective sheeting. As per IRC: 67 2022 only coefficient of retro reflection, daytime colour and luminance, shrinkage, flexibility, liner removal, adhesion, impact resistance, specular gloss and fungus resistance, 3 years outdoor weathering tests are to be requested from International/ Indian Labs. There of separate third-party test only for retroreflection and colorimetry. This is specifically given to monopolize the tender as one of the Brand has the test facility for testing these 2 parameters and this clause will benefit them to eliminate the other brands and bidders.	Point 4	166	A certified copy of test reports from an independent test laboratory confirming to clause 6.4 of IRC 67-2012 including 3 years outdoor weather exposure reports forthe retro reflective sheeting offered attested by the retro reflective sheeting manufacturer & shall be submitted by the bidder during the bid submission. Also a third party test report fromIndia for retro reflection and colorometry of retro reflective sheeting shall be submitted by the bidder.	Testing of retro reflective sheeting will be as per IRC-67 of 2022 and ASTM D4956 . Testing of reto reflective sheeting shall carried out through any Government Approved Lab/ NABL Accredited Lab.
		As mentioned above this clause has no relevance in road signs and hence must be removed. This is only used to create monopoly in tenders.	BOQ of signages	Page 14 of 8	The message (legends, letters, numerals, logos etc) along with the boards to be digitally printed on latex or equivalent platform using ink approved by the sheeting manufacturer conforming to UL 2801 and UL 2818.	As MMRCL is using BMC tender and USOR 2023 for this tender , The required condition shall be changed only after correction from BMC authority will be obtained . Hence , this BOQ discription can not be altered at this stage.

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4	M/s. MARG Safe Technology LLP	Retro-Reflective Sheeting Testing (Point B, C) - IRC:67 2022 requires certification for all traffic colors (White, Red, Blue, Green, Yellow), but these are not specified in the tender.	Point B, (C),	7	A certificate of having the sheeting tested for coefficient of retro reflection, daytime color and luminance, shrinkage, flexibility, liner removal, adhesion, impact resistance, specular gloss and fungus resistance, 3 years outdoor weathering and its having passed these tests shall be obtained from International and Indian Government Laboratory/Institute by the sheeting manufacturer. Alternatively, a certificate conforming to ASTM Specification (D 4956-09) on artificial accelerated weathering requirements from a reputed laboratory in India can be accepted provisionally. In such a situation, the OEM of the retro reflective sheeting must submit a performance guarantee from the nationalized bank for the full tender value which would be released after receipt of certificate meeting the requirement of three years outdoor weathering of the sheeting.	Bidder shall refer IRC- 67 Of 2022 having clause 6.7 for retro reflective sheeting, which is self explanatory.Hence, your suggested correction can not be considered.
		2.Flexible Median Marker (Point B, f): Currently a 3M-registered patent; restricting participation. IRC:79 2019 has replaced this specification.Update per IRC:79 2019.	Point B, (F),	7	The bidder shall be able to provide two years of prequalification warranty for road furniture such as Road studs/Cat's eye/Flexible median marker from the manufacturer of road furniture. The test report of all the colours of Road Studs as per IRC 35-2015 clause 5.4 tested in accordance with IRC 35-2015 section 5 clause 5.1.2 (The Clause 804 of 'Specification for Road and Bridge Works" by the Ministry of Road Transport & Highways (MORTH) and ASTM D4280-04 shall be referred for technical specification of road studs) shall be submitted.	The correction suggested for change in name of flexibale median marker as marker for delation of median is considered as per amendment carriedout in IRC 79 of 2019 effective from 01.10.2023. However, item description in tender BOQ may not be changed untill correction from BMC authority.
		Digital Printing (Point B, g): - Tender misinterprets IRC:67 2022. It mandates a matched component system by the sheeting manufacturer. Require a manufacturer's declaration on ₹200 stamp paper.	Point B, (g)	8	For digital printing, the signs shall be manufactured using a system of matched components of reflective sheeting and overlay films and digital inks approved by the reflective sheeting manufacture. Digitally printed traffic color (red, blue, green, yellow, orange and brown) areas on white sheeting shall not be having less than 70 percent of the value of the coefficient of retro reflection established for its color and type of sheeting as given in Table 6.9 of IRC 67 of 2022.	Bidder shall refer IRC- 67 of 2022 clause No.6.8 for border and messages " In case of digital printing, the signs shall be manufactured using a system of matched components of reflective sheeting and overlay films and digital inks manufactoryed and supplied by the relective shetting manufactur .The digital printer and digital ink shall be approved by the reflective sheeting manufacture. Digitally printed traffic color (red, blue, green, yellow, orange and brown) areas on white sheeting shall not be having less than 70 percent of the value of the coefficient of retro reflection established for its color and type of sheeting as given in Table 6.9 of IRC 67 of 2022 ". which is self explanatory .
		VOC Certification (Point B, h & BQO Items for Signage): Not required under IRC:67 2022 or any government guideline. Correction: Remove this clause	Point B, (h)	8	The bidder shall submit the declaration from manufacturer of retro reflective sheeting that the inks used for printing shall be certified for low volatile organic compound (VOC) emission confirming to UL 2801 and UL 2818 (standard for sustainability for printing inks) shall be submitted along with Green Guard Certificate.	As MMRCL is using BMC USOR 2023 & tender for this tender , The required condition shall be changed only after correction from BMC authority . Hence , this condition can not be altered at this stage. Hence tender condition prevails.
		Litigation History (Point No. 7, Page 8): - Should include OEM litigation history with any government body/PSU. : Expand definition to cover OEM disputes.	Point No. 7	8	Litigation History" - If there is no Litigation History, the bidder shall specifically mention that there is no Litigation History against him. In case there is Litigation History –Litigation History must cover – Any action of Blacklisting, debarring, banning, suspension, deregistration and cheating with MCGM, State Govt., Central Govt., or any authority under State or Central Govt./Govt organization initiated against company, firm, directors, partners or authorized signatory shall be disclosed for last 5 years from the date of submission of bid. Also, bidder shall disclose the litigation history of last 5 years from the date of submission of bid about any action like show cause issued, blacklisting, debarring, banning, suspension, deregistration and cheating with any Govt /State Govt/ Central Govt / Semi Govt against the company, firm, directors, partners or authorized signatory .	No change ,hence tender condition prevails .
		OEM Testing Lab Requirement (Page 165, Type XI Sheeting): - In-house labs create conflict of interest; IRC mandates independent NABL/Govt. labs.-Limiting tests to only ARAI & CRRI favors one brand.: Allow all NABL/Govt. accredited labs.	Technical Specifications for Type XI sheeting	165	OEM supplying road furniture (RPM/Median Marker) shall have their own facility of government approved R&D laboratory of their own registered in India. All retro reflective sheeting shall be tested as per clause 6.7 of IRC 67-2012 in government approved laboratory or ARAI pune / CRRI Delhi. Contractor shall also submit lot certificate from the retro reflective sheeting manufacturer for the supplied lot.	No change ,hence tender condition prevails .

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		Contradictory Testing Requirements (Page 166, Point 4): - Duplicate testing for retro-reflectivity & colorometry benefits one OEM.Remove redundant third-party testing.	Point 4	166	A certified copy of test reports from an independent test laboratory confirming to clause 6.4 of IRC 67-2012 including 3 years outdoor weather exposure reports for the retro reflective sheeting offered attested by the retro reflective sheeting manufacturer & shall be submitted by the bidder during the bid submission. Also a third party test report from India for retro reflection and colorometry of retro reflective sheeting shall be submitted by the bidder.	Testing of retro reflective sheeting will be as per IRC-67 of 2022 and ASTM D4956 . Testing of retro reflective sheeting shall be carried out through any Government Approved Lab/ NABL Accredited Lab.
		UL2801 & UL2818 Certification (Sustainability):-Not relevant to outdoor signage. IOCL has already removed this requirement.Remove these certifications.	BOQ of signages		The message (legends, letters, numerals, logos etc) along with the boards to be digitally printed on latex or equivalent platform using ink approved by the sheeting manufacturer conforming to UL 2801 and UL 2818.	As MMRCL is using BMC tender and USOR 2023 for this tender , The required condition shall be changed only after correction from BMC authority will be obtained . Hence , this BOQ description can not be altered at this stage.
		MCGM USOR Reference:-Outdated and inconsistent with IRC:67 2022.Align with IRC:67 2022 (update in process).	BOQ of signages		The message (legends, letters, numerals, logos etc) along with the boards to be digitally printed on latex or equivalent platform using ink approved by the sheeting manufacturer conforming to UL 2801 and UL 2818.	As MMRCL is using BMC tender and USOR 2023 for this tender , The required condition shall be changed only after correction from BMC authority will be obtained . Hence , this BOQ description can not be altered at this stage.
5	M/s. Shree Ram Enterprises	<b>Certification of Digital Printing Company:</b> The company performing the digital printing for retro-reflective sheeting must be certified by the sheeting manufacturer. The bidder should provide a written undertaking confirming this certification.	-	-	-	Refer Addendum 1 the digital printing for retro reflective sheeting shall be approved and certified by retro reflective sheeting manufacturer and undertaking to that effect shall be submitted by the bidder.
		<b>Experience of Printing Firm:</b> The bidder must submit an authorization letter from an OEM/approved printing firm. The firm must have ten years of experience in digital printing, including retro-reflective printing of at least 12,000 sqm in the MMR region over the last five years. The firm must also have a valid ISO 9001:2015 certificate and company and comply with all quality control standards as outlined.	-	-	-	Refer Addendum 1 The bidder must submit an authorization letter from an OEM/approved printing firm. The firm must have five years of experience in digital printing, including retro-reflective printing of at least 5000 sqm in the MMR region over the last three years. The firm must also have a valid ISO 9001:2015 certificate and company and comply with all quality control standards as outlined.
		<b>Thermoplastic Materials:</b> The bidder must be a manufacturer of IRC-accredited Thermoplastics and associated materials or an authorized applicator. Necessary certifications, including IRC Accreditation and Applicator Certificates, must be submitted with the bid.	-	-	-	No change ,hence tender condition prevails .
6	M/s. Mansi Construction	The above-mentioned work is majorly of civil nature. The condition desired above is a specialized job for which there are special agencies with relevant experience available in the market.	-	-	-	No change ,hence tender condition prevails .
		Being in the market for many years now, as per our knowledge there are handful of contractors who have experience in road construction and are authorized convertor. This leads to possibility of low competition and bid rigging.	-	-	-	No change ,hence tender condition prevails .
		The total amount of sign boards in the BOQ is about 20% of the total tender cost. Hence MOU should be allowed with an authorized convertor who meets the above mentioned criteria	-	-	-	No change ,hence tender condition prevails .
		There are various metro projects going on in the MMR region and all have called tenders for multimodal integration. However, none of the tenders have asked for the above highlighted qualifying condition. Almost all the tenders had construction of road work along with street furniture as the qualifying criteria. In fact, we have been awarded MMI work in Metro Line 6 pkg 3 (Work Order attached) in which there was no such condition desired	-	-	-	No change ,hence tender condition prevails .
		In the Reach 2 MMI tender, your esteemed department had relaxed the authorized convertor condition by allowing the civil contractor to enter into a JV along with the authorized convertor. We hereby request you again to kindly allow MOU with the authorized convertor	-	-	-	No change ,hence tender condition prevails .

Sr. No.	Bidders Name	Bidders Query	Ref.	Page no	Tender Conditions under no.	MMRCL Remark
		Further since the major amount of work is of civil nature and the time period allotted to complete the work is only 90 days. Hence we request you to seek a condition that the civil contractor should have ownership of BMC plant in his own name within a radius on 35 km from the side. For swift and better execution of work and healthy competition amongst earnest bidders MMRDA has seeks this condition in almost all of the major civil engineering projects	-	-	-	No change ,hence tender condition prevails .
		Also, MMRDA in its major projects seeks that contractor should possess in its own name machinery like JCB, Trucks, Transit Mixers etc	-	-	-	No change ,hence tender condition prevails .
7	M/s. SPACETECH	<b>Certified Digital Printing:</b> The digital printing for retro-reflective sheeting must be executed by a company approved and certified by the sheeting manufacturer. The bidder must provide an undertaking confirming this.	-	-	-	Refer Addendum 1 the digital printing for retro reflective sheeting shall be approved and cerified by retro reffective sheeting manufacturer and undertaking to that effect shall be submitted by the bidder.
		<b>Authorization from Printing Firm:</b> The bidder must submit an authorization letter from the OEM/printing firm that owns a digital printing machine and maintains adequate in-house quality control, including a prepress studio and color evaluation booth. The firm must have ten years of experience in high-quality digital printing, with a minimum of 12,000 sqm of retro-reflective printing in the MMR region within the past five years, and hold a valid ISO 9001:2015 certificate.	-	-	-	Refer Addendum 1 The bidder must submit an authorization letter from an OEM/approved printing firm. The firm must have five years of experience in digital printing, including retro-reflective printing of at least 5000 sqm in the MMR region over the last three years. The firm must also have a valid ISO 9001:2015 certificate and company and comply with all quality control standards as outlined.
		<b>Thermoplastic Manufacturing and Applicator Certification:</b> The bidder should either be an IRC-accredited manufacturer of Thermoplastic material, divider, and kerb stone paint or an authorized applicator. The relevant IRC Accreditation and Applicator Certificates must be included with the bid.	-	-	-	No change ,hence tender condition prevails .
8	M/s. Landmark Corporation Pvt. Ltd.	we request you to allow 10% update to bring previous works to Current price level i.e. 2024-25 as is practice in various municipal corporations and smart cities across India	-	-	-	No change ,hence tender condition prevails .
		Kindly consider as Available Bid Capacity = 2*A*N - B	-	-	-	No change ,hence tender condition prevails .
		We request your good office to reduce the Performance Security to 3% as followed by BMC n All Smart Cities and Maharashtra's various other department to reduce undue financial burden.	-	-	-	No change ,hence tender condition prevails .
9	M/s. Yashi Construction	As per recent BMC & MMRDA Policy HDPE duct (315 OD Pipe) should be installed in Footpath for utilities to avoid excavation in the future. Recent tenders of CC road in MCGM and MMI Tender of Line 2B, Line6 and Line 5A HDPA pipe duct items have been included.	-	-	-	No change ,hence tender condition prevails .
		Stamping and Straining of concrete on footpath items should be execeuted on footpath as per MMRDA items.	-	-	-	No change ,hence tender condition prevails .
		Items of SWD should be included for reconstruction of SWD at dilapidated locations.	-	-	-	No change ,hence tender condition prevails .
		Items of GFRC railing should be included in the BOQ which is being included in Line 5A, Line 2B and Line 6.	-	-	-	No change ,hence tender condition prevails .
		The company executing digital printing for retro-reflective sheeting shall be approved and and certified by retro sheeting manufacturer and undertaking to that effect shall be submitted by the bidder.	-	-	-	Refer Addendum 1 the digital printing for retro reflective sheeting shall be approved and cerified by retro reffective sheeting manufacturer and undertaking to that effect shall be submitted by the bidder.

Sr. No.	Bidders Name	Bidders Query	Ref.	Page no	Tender Conditions under no.	MMRCL Remark
		The bidder shall submit an authorization/consent letter from the OEM/printing firm having digital printing machine with adequate in-house QC facilities like own prepress studio for artwork making & adaption, booth to evaluate color under controlled daylight viewing conditions etc. the authorization/consent letter in this regard shall be submitted. The printing firm shall have at least ten years of experience in high-quality digital printing, with a minimum of 12,000 sqm of retro-reflective printing in the MMR region within the past five years, and must currently have a valid ISO 9001:2015 certificate. the completion/authorization certificate to that effect from the printing company/ firm along with the credentials/supporting documents must be submitted by the bidding contractor. the facility of both the converter and printer will be inspected & certified by the MMRCL authorities for the above given parameters as part of technical evaluation.	-	-	-	Refer Addendum 1 The bidder must submit an authorization letter from an OEM/approved printing firm. The firm must have five years of experience in digital printing, including retro-reflective printing of at least 5000 sqm in the MMR region over the last three years. The firm must also have a valid ISO 9001:2015 certificate and company and comply with all quality control standards as outlined.
		Bidder shall be manufacturer of IRC accredited Thermoplastic, divider, and kerb stone paint having NABL approved laboratory for quality testing of its materials or shall be their authorized applicator.	-	-	-	No change ,hence tender condition prevails .
10	M/s. Kataline Infraproducts Pvt. Ltd.	Specifying OEM of Thermoplastic Marking Paint namely "Asian Paints, Berger' s Paints and Nerolac Paints."	-	-	-	Refer Addendum 1 OEM of Thermoplastic Marking Paint namely "Asian Paints, Berger' s Paints and Nerolac Paints."along with other approved thermoplastic material confirming to ASTM-36 / MORTH/ BS-3262 and certified by Govt. Lab/ NABL Accredited Lab having ISI Mark. IRC accreditation certificate and the min. 2 years performance certificate for Cold Plastic material to be submitted.
		This inhibits the participation of the bidders who are associated with other reputed Thermoplastic Marking Paint manufacturers who are also providing IRC accreditation and NABL certification, and fully comply with MoRTH standards.	-	-	-	
		Above mentioned companies are having specialization in decorative paints and some of them neither having Thermoplastic paints.	-	-	-	
Other terms and conditions remain unchanged.						
						Dy. General Manager (Civil) For and on behalf of Director (Planning) Mumbai Metro Rail Corporation Ltd.