



Government of West Bengal
Irrigation & Waterways Directorate
Office of the Superintending Engineer, Eastern Circle
Postal Address : Jalasampad Bhawan, 8th Floor, Salt Lake, Kolkata-700091.
Phone & Fax No.: (033) 23341790 E-Mail ID : seeciwd2010@gmail.com

Memo. No.: 1590

Date: 25.09.2020

4th CORRIGENDUM

EOI No. 01 of SE/EC/2020-21, Dated 09.09.2020

DETAILS OF CORRIGENDUM:- ANNEXURE-2 enclosed with the EOI is modified as detailed below:-

Annex-2 (1st Modified)

Price schedule for budget quote

Schedule of Work of the Project:

“Scour protection on urgent basis around the LCT Jetty on river Muriganga, at Kachuberia, Block & PS Sagar, District South 24 Parganas”,

Sl. No	Description of work	Qty	Unit	Rate (Rs.)	Amount (Rs).																														
1	Supplying multifilament woven polypropylene Geo-containers of size 3 mx 1.2 m x 0.4m (length x width x height) and stacking at site as per following specification: <table border="1"><thead><tr><th>Sl No.</th><th>Property</th><th>Unit</th><th>Test Method</th><th>Minimum Average Bag ValueV</th></tr></thead><tbody><tr><td>1</td><td>Weight</td><td>Gsm</td><td>ASTM D 5261</td><td>430</td></tr><tr><td>2</td><td>Tensile Strength MD /CMD</td><td>KN/m</td><td>IS1969 ;Part 1 /ISO 13934-1</td><td>70/70</td></tr><tr><td>3</td><td>Elongation at specified tensile strength MD/CMD</td><td>%</td><td>IS 1969: Part 1 / ISO 13934-1</td><td>27 /25</td></tr><tr><td>4</td><td>Trapezoidal Tearing Strength (Min) MD CMD</td><td>N</td><td>IS 14293</td><td>1500 1300</td></tr><tr><td>5</td><td>Puncture Resistance, Min</td><td>N</td><td>ASTM D 4833</td><td>900</td></tr></tbody></table>	Sl No.	Property	Unit	Test Method	Minimum Average Bag ValueV	1	Weight	Gsm	ASTM D 5261	430	2	Tensile Strength MD /CMD	KN/m	IS1969 ;Part 1 /ISO 13934-1	70/70	3	Elongation at specified tensile strength MD/CMD	%	IS 1969: Part 1 / ISO 13934-1	27 /25	4	Trapezoidal Tearing Strength (Min) MD CMD	N	IS 14293	1500 1300	5	Puncture Resistance, Min	N	ASTM D 4833	900				
Sl No.	Property	Unit	Test Method	Minimum Average Bag ValueV																															
1	Weight	Gsm	ASTM D 5261	430																															
2	Tensile Strength MD /CMD	KN/m	IS1969 ;Part 1 /ISO 13934-1	70/70																															
3	Elongation at specified tensile strength MD/CMD	%	IS 1969: Part 1 / ISO 13934-1	27 /25																															
4	Trapezoidal Tearing Strength (Min) MD CMD	N	IS 14293	1500 1300																															
5	Puncture Resistance, Min	N	ASTM D 4833	900																															

Sl. No	Description of work					Qty	Unit	Rate (Rs.)	Amount (Rs.)																				
	6	Seam strength, min	Percent	IS 15060 / ISO 10321	60																								
	7	Abrasion resistance Tensile strength retained, Min	Percent	IS 14714	75																								
	8	Flow water rate - 10cm head	Lit/m2/Sec	IS 14324	18																								
	9	AOS (Max)	mm	ASTM D 4751	0.07 (Max Average Roll value)																								
	10	U.V. Resistance after 500hrs, Min	% strength Retained	IS 13162 (Part 2)	>70																								
	<p>Note: 1. Payment will be made subject to the result of 3rd Party Testing, to be done by the Engineer-in-charge independently, cost of which will be borne by the client.</p>																												
2	<p>Supplying at site and laying in position UV stabilized needle punched, stapled fibre / continuous filament polypropylene non-woven geotextile of 300 gsm as filter, as per the following specification, including placing the geotextile as per profile under water with at 10% lap length, storage and transportation by all means, complete as per direction of the Engineer-in-charge.</p> <table border="1"> <thead> <tr> <th>Sl No.</th> <th>Property</th> <th>Unit</th> <th>Test Method</th> <th>Minimum /Marginal Average Roll Value</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Weight</td> <td>Gsm</td> <td>ASTM D 5261/IS 15891 (Part 1):2011</td> <td>300</td> </tr> <tr> <td>2</td> <td>Thickness</td> <td>mm</td> <td>15891 (Part 2):2011</td> <td>2.5</td> </tr> <tr> <td>3</td> <td>Tensile Strength</td> <td>KN/m</td> <td>ASTM D 4595 /IS 15891 (Part 3):2011</td> <td>19</td> </tr> </tbody> </table>					Sl No.	Property	Unit	Test Method	Minimum /Marginal Average Roll Value	1	Weight	Gsm	ASTM D 5261/IS 15891 (Part 1):2011	300	2	Thickness	mm	15891 (Part 2):2011	2.5	3	Tensile Strength	KN/m	ASTM D 4595 /IS 15891 (Part 3):2011	19	3988	Sq. m.		
Sl No.	Property	Unit	Test Method	Minimum /Marginal Average Roll Value																									
1	Weight	Gsm	ASTM D 5261/IS 15891 (Part 1):2011	300																									
2	Thickness	mm	15891 (Part 2):2011	2.5																									
3	Tensile Strength	KN/m	ASTM D 4595 /IS 15891 (Part 3):2011	19																									

Sl. No	Description of work					Qty	Unit	Rate (Rs.)	Amount (Rs.)
	4	Elongation at specified tensile strength	%	ASTM D 4632	20				
	5	Grab Tensile Strength	N	ASTM D 4632	1090				
	6	Trapezoidal Tear resistance	N	ASTM D 4533 /IS 14293:1 995	445				
	7	Rod Puncture Strength	N	ASTM D 4833 /IS 16348:2 015	550				
	8	Permeability	mm /sec	ASTM D 4491 /IS 14324:1 995	0.03				
	9	Permittivity	Per second	ASTM D 4491 /IS 14324:1 995	0.012				
	10	AOS	mm	ASTM D 4751 /IS 14294 :1995	0.09				
	11	U.V. Resistance after 500 hrs, Min	% strength Retained	IS 13162 (Part 2)	>= 75				
	<p>Note: 1. Payment to be made on measurement of finished surface without lapping, 2. Payment will be made subject to the result of 3rd Party Testing, to be done by the Engineer-in-charge independently, cost of which will be borne by the Client.</p>								
3	Filling up the containers with sand slurry /river silt (Specific Gravity 2.65) or any like other materials in such a manner that filled up volume is not less than 80% of the gross volume, and the weight of each container above water not less than 1.8 M.T, placing /dumping the filled up containers in position as per profile and drawing in between -7m to -10 m below the Chart Datum, using split-bottom barge or any other equipment including cost of arrangement of the filler material, labor, machinery & equipment, complete.					7309	Nos.		

Sl. No	Description of work	Qty	Unit	Rate (Rs.)	Amount (Rs.)
4	Underwater videography and still photography, before, during and after execution in sets, per set comprising one video capsule of 5 minutes duration covering the entire area and 4 still photographs	6	Sets		
				Total cost	

Special note:

1. The quoted price shall include, inter alia, cost of pre, during and post work surveys.
2. Geotextiles must be tested by the Client /Engineer-in-charge at accredited or well equipped laboratories (e.g. BITRA, CIPET, Jadavpur University, etc.) having all testing facilities prescribed above. Cost of such testing, deemed to be 3rd Party Testing would have to be borne by the Engineer -in-charge and the responsibility of taking samples, and sending to laboratories shall entirely be vested on him, for which necessary provision for cost shall be made in the estimate, but may not be included in the BoQ of contract. This apart, the contractor also shall furnish Manufacturer's Test Certificates (MTC) from either own laboratory or from accredited laboratories stated above. No payment shall be released without MTC and full payment shall not be released until results of 3rd Party Testing. In case of non-compliance of the results of 3rd Party Testing with the specified parameters, the Engineer-in-charge shall make payment at reduced rate on pro-rata basis as stated below:

Criteria	Reduced rate of payment
All properties other than UV resistance	@10% for each criterion
UV resistance	@ 50%

3. The Bidder, during final tendering will have to provide warranty of geotextile materials from the Manufacturer for a period of 3 years, for which a part of the security deposit would be withheld.

Note :- All other terms and conditions of the EOI remain unchanged.


 25.9.2020
 Superintending Engineer
 Eastern Circle
 Irrigation & Waterways Directorate
 Official e-mail ID: seeciwd2010@gmail.com