

SWACHHA SAGAR-CLEAN OCEAN MISSION
INTERNATIONAL COASTAL CLEANUP – 2021, DIGHA, WEST BENGAL
ORGANIZED BY- EGRA SARADA SHASHI BHUSAN COLLEGE
EGRA, PURBA MEDINIPUR, WEST BENGAL

Digha is a seaside resort town in the state of West Bengal, India. It lies in Purba Medinipur district and at the northern end of the Bay of Bengal. It has a low gradient with a shallow sand beach. The coastal belt is about 14km length from the Orissa border to Jaldha mouja, situated in the district of Purba Medinipur of West Bengal, India, and it is well known as Digha coast. The coast is doubly vulnerable today on one hand, it is facing unprecedented pressures because of tourism and urban development; on the other

hand, it is threatened by climate change related devastation from growing intensities of cyclonic storms to sea surges and eventual sea level rise. Frequent embankment failures, submergence and flooding, beach erosion and siltation at jetties and navigational channels, cyclones and storm surges are all making this area increasingly vulnerable. The present paper attempts to highlight the various coastal issues of Digha coast, West Bengal.

WORKING AREA



National Centre for Coastal Research (NCCR)
Ministry of Earth Sciences
ICC-day 2021-Questionnaire

Date: 03/10/21

Time: 8am to 4.30pm

i.	Name of the coordinator	Name: Dr. Sudipta Ghorai Mobile number: 8016328891 Email: sudiptag8@gmail.com
ii.	Name of the Beach and state belonging to	Digha West Bengal
iii.	The beach is belonging to	Urban beaches: <input type="checkbox"/> Semi Urban <input checked="" type="checkbox"/> Remote/natural: <input type="checkbox"/>
iv.	Name of the Institute	Egra Sarada Shashi Bhusan College
v.	Coordinates:	Lat.:21.62° N Long.:87.51°E
vi.	Area of beach cleaned.	Length(meter) :3000 Width(meter):15
vii.	Beach type	Sandy <input checked="" type="checkbox"/> Rocky <input type="checkbox"/> or Other:
viii.	Beach Ends with	Seawall <input checked="" type="checkbox"/> , Road <input type="checkbox"/> , Vegetation <input type="checkbox"/> or other (specify):
ix.	Are there any food/ drink / or any other shops on the beach	Yes Total numbers: 150 Food: 107 Balloon shooting: 4 Others (specify): Ornament
x.	Is there are a harbour/fishing jetty close to the beach	Yes Name: Digha Mohona, Distance from Old Digha : 1.5 km.
xi.	Is there a river/creek close to the beach	Yes Name: Subarnarekha Estuary Distance from New Digha: 7 km.
xii.	Is there a fishing village close to the beach	Yes Name: Ghersai Distance from Old Digha: 1.2 km.
xiii.	How often is the beach cleaned	Not cleaned
xiv.	The method used for cleaning	Mechanical
xv.	Authority responsible for cleaning	

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Annexure-II

ICC-day 2021- Datasheet

Category	Description	Number of items	Weight(kg)
Plastics	Plastic Cap	1849	4.06
	Plastic water bottle	1459	15.37
	Plastic liquor bottle	571	10.278
	Plastic Medicine bottle	183	3.47
	Polythene cover (carry bags)	5332	1.07
	Plastic spoon	1287	0.71
	Plastic straw	2674	0.278
	Plastic cups	1258	2.5
	Plastics menstrual cups		
	Food containers (box)	251	1.1
	Food wrappers	1754	1.23
	Cigarette Lighter	16	0.096
	Cigarette butts & filters	542	0.38
	Cigarette packs	217	0.87
	Plastic rope	108	31.59
	Fishing lures		
	Fishing floats	84	18.24
	Fishing net	47	14.1
	Plastic pieces	1053	6.51
	Toys	39	4.38
	Ballpoint pen	47	0.42
	Plastic shaving razor	14	0.126
	Shampoo and detergent covers	146	3.71
	Cosmetic item cover	231	14.5
	Plastic comb	21	0.924
	Plastic cloth clips	59	0.177
	Toothpaste cover	35	0.5
	Toothbrush	43	2.24
	Syringe	17	0.12
	Medicine tablet & ointment cover	248	1.8
Mesh bags (for fruits and vegetables)	48	1.26	
Polypropylene woven bag	12	1.4	
Other plastics items	359	0.93	

Glass	Liquor glass bottle	74	58.4
	Medicine glass bottle	42	0.41
	Glass bottle (others)	23	0.23
	Light Bulbs	12	0.36
	Other glass items		
Foam plastics	Foam Sponge	24	0.035
	Foam (Thermocol)	37	0.042
Metal	Metal caps	236	0.472
	Tin Cans	269	8.07
	Foil wrappers	64	0.512
	Electric Wire	12	4.14
	Metal containers		
	Metal Spoon	6	0.168
	Other metal items		
Papers	Paper (including newspapers & magazines)	367	2.348
	Paper food wrappers	73	0.984
	Paper cups	1375	2.47
	Cardboard boxes & fragments	68	8.2
	Other paper items		
Clothes	Face Mask	562	1.22
	Other clothes	51	2.56
	Hat	32	1.02
Wood	Ice cream sticks	287	0.33
	Wood (Others)		
	Matchbox	23	0.087
Rubber	Footwear(flip-flops)	68	11.016
	Balloons	27	0.081
	Rubber sheet		
	Condoms		
	Other rubber items (specify)		
Others	Diaper	29	11.6
	Appliances & Electronics		
Total		23,765	258.82

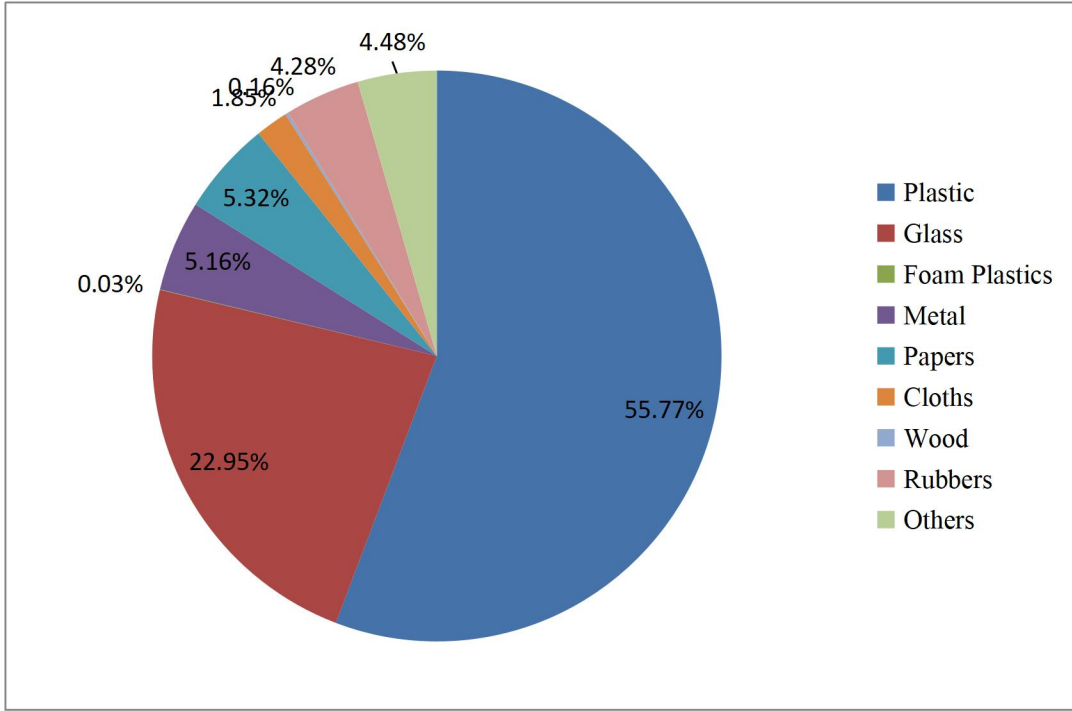
Total area = Length * width = 3000*15 =45,000 (meters)

Total number of litter items collected = 23,765 (numbers)

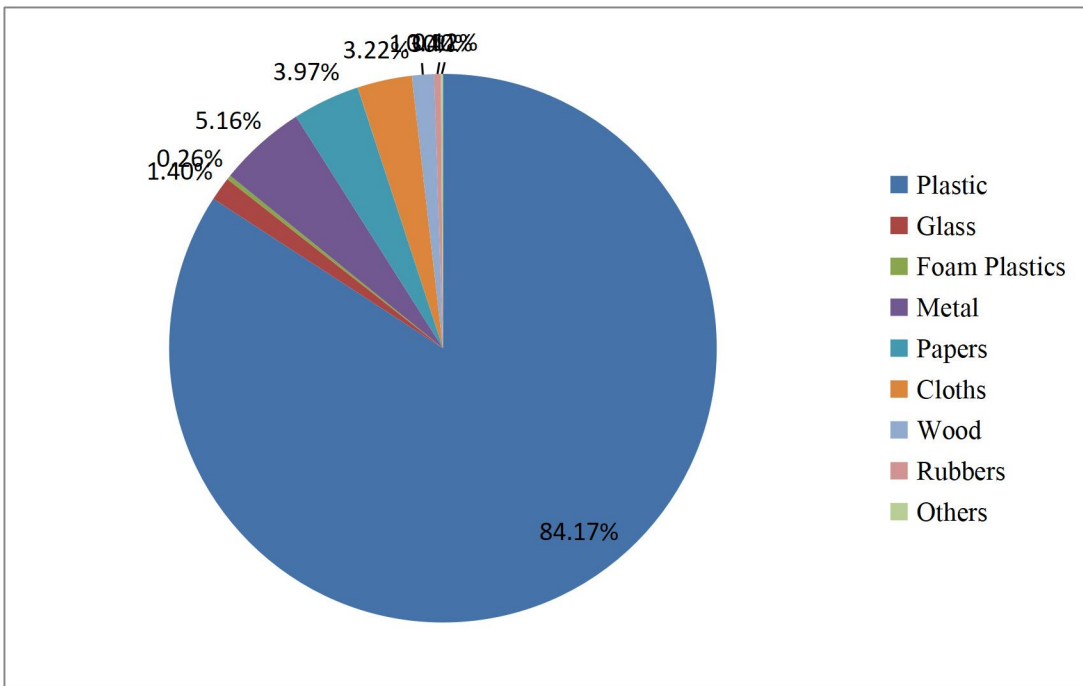
Total weight of litter items collected = 258. (Kilograms)

Statistical Analysis

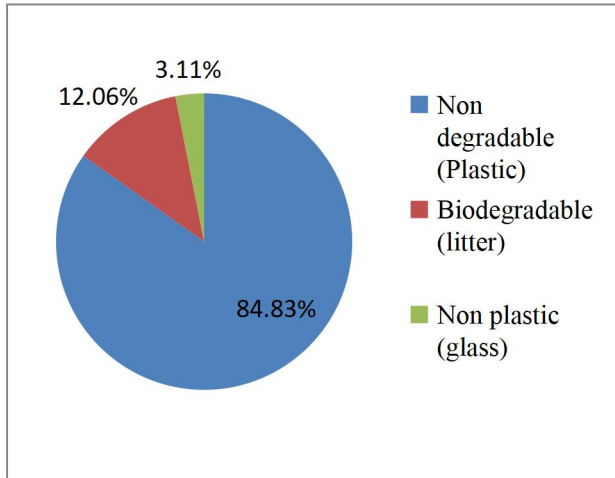
Trash collected during beach cleanup – Digha (Weight)



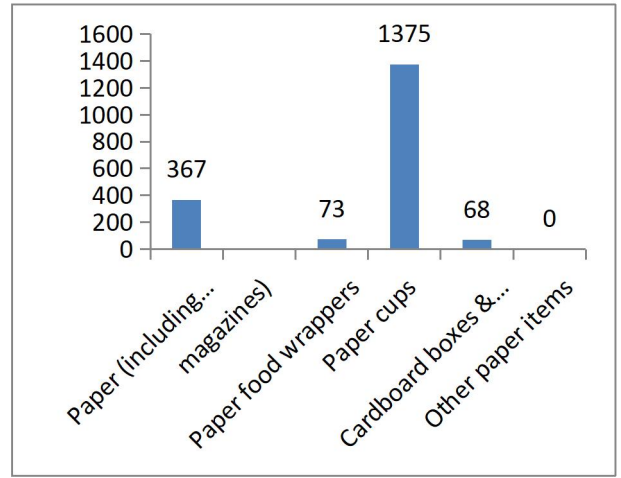
Trash collected during beach cleanup – Digha (Weight)



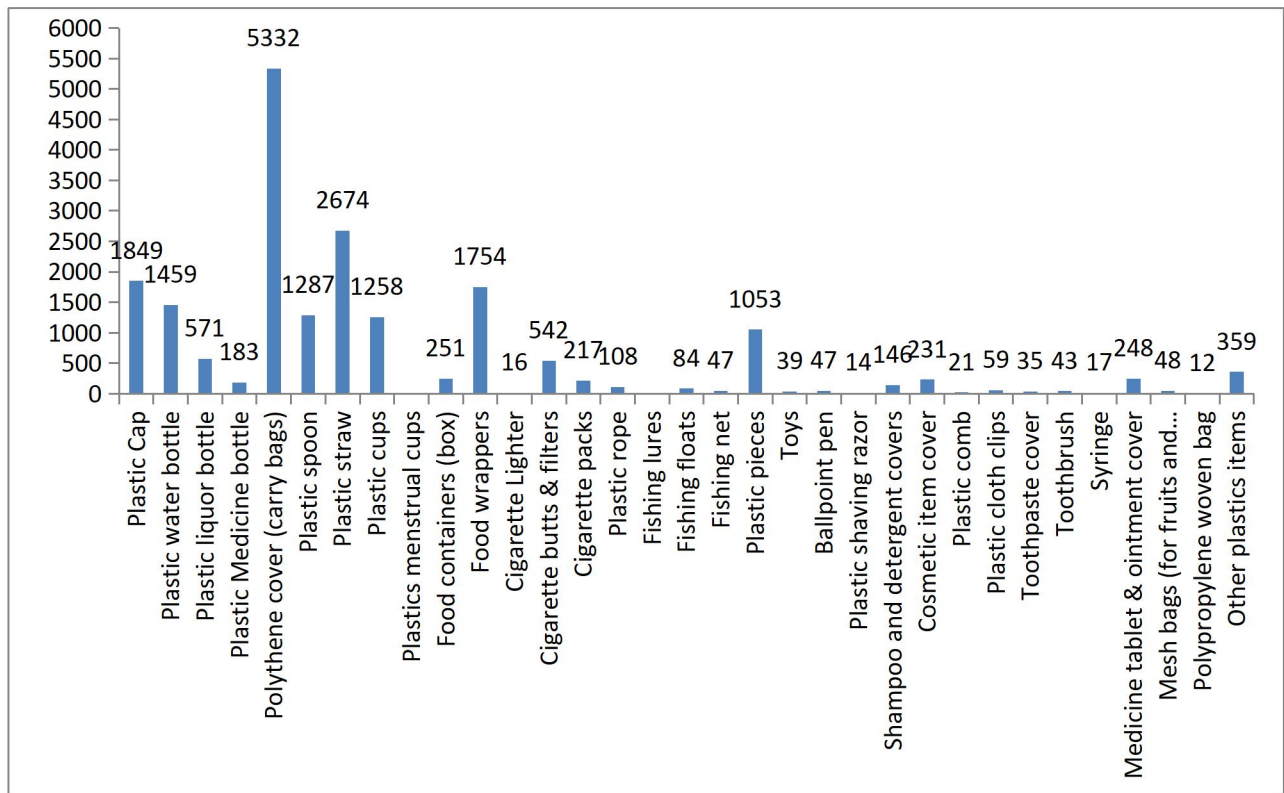
Trash Categories



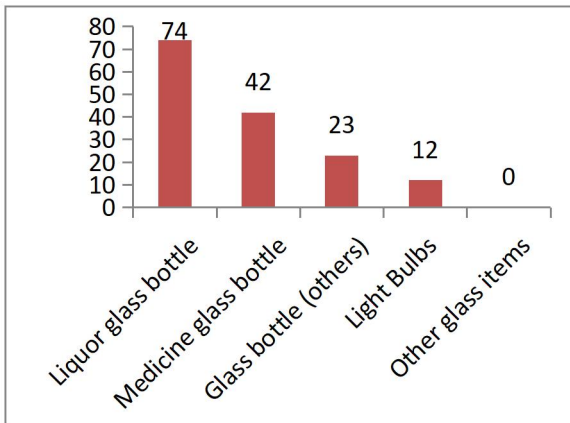
Different types of Paper trash



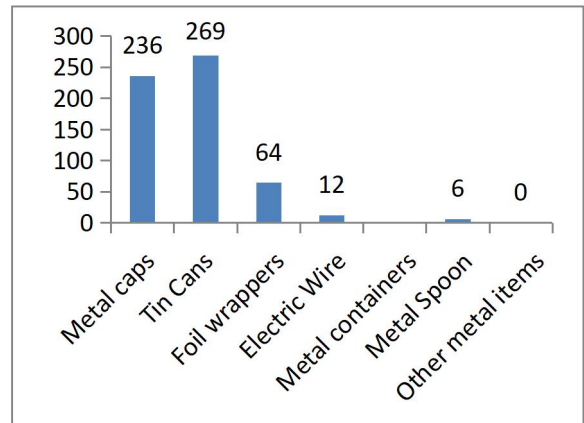
Different types of Plastic trash



Different types of Glass trash



Different types of Metal trash



Images of Beach Cleaning Programme



