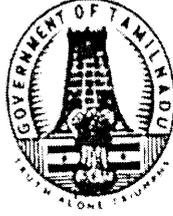


Annexure

Annexure I
Gazette Notification



ABSTRACT

Fisheries – Tamil Nadu Marine Fishing Regulation Act, 1983(Tamil Nadu Act 8 of 1983) - Fishing Port, Fish Landing centres and Fish Landing Points - Notification-Orders - Issued.

Animal Husbandry, Dairying and Fisheries (FS-1) Department

G.O. (Ms) No.149

Dated: 8.7.2015

Thiruvalluvar Aandu - 2046
Aani-23

Read:

From the Commissioner of Fisheries, letter Rc.No.555/ J5/2014,
dated.16.3.2015 and letter of even number dated.7.7.2015.

ORDER:

In the letters read above, the Commissioner of Fisheries has stated that the Joint Commissioner (Fisheries), Government of India, Ministry of Agriculture, Department of Animal Husbandry, Dairying and Fisheries has requested to examine the provisions of Marine Fishing Regulation Act (MFRA) and consider notifying all the existing fish landing centres under purview of the above Act. The Commissioner of Fisheries has further stated that during all the coastal security meetings the Indian Coast Guard is also requesting the Fisheries Department to notify all the existing fish landing centres in Tamil Nadu to strengthen the coastal security.

2. The Commissioner of Fisheries has also informed that in order to regulate fishing and strengthen the maritime and coastal security against threats from the sea, the Government may notify the existing fishing harbour and fish landing centres in Tamil Nadu.

3. The Government, after careful examination, have decided to accept the proposal of the Commissioner of Fisheries. Accordingly, the Government notify Eleven Fishing Harbours located in six (6) Coastal Districts in Table-I of the Notification as "Fishing Port", thirty six places located in eleven (11) Coastal Districts in Table-II of the Notification as "Fish Landing Centres" and the places shown in Table-III of the Notification, located in 13 Coastal Districts as "Fish Landing points" under clause (i) of section 3 read with Sub-Section (2) of section 5 of the Tamil Nadu Marine Fishing Regulation Act, 1983 (Tamil Nadu Act 8 of 1983).

(P.T.O)

5. The following Notification will be published in the Tamil Nadu Government Gazette:-

NOTIFICATION

In exercise of the powers conferred by clause (i) of section 3 read with sub-section (2) of section 5 of the Tamil Nadu Marine Fishing Regulation Act, 1983 (Tamil Nadu Act 8 of 1983), the Governor of Tamil Nadu hereby notifies the Fishing Harbours which are in operation in Tamil Nadu as the 'Port' for the purpose of this Act, as detailed in the Table-I below:-

TABLE-I

FISHING PORT

Serial Number (1)	District (2)	Fishing Port (3)	Latitude (4)	Longitude (5)
(1)	Chennai	(1) Chennai (Kasimedu) Fishing Harbour	13°07'50"N	80°17'50"E
(2)	Cuddalore	(1) Cuddalore Fishing Harbour	11°42'52"N	79°46'31"E
(3)	Nagapattinam	(1) Nagapattinam Fishing Harbour	10°45'39"N	79°50'59"E
		(2) Pazhayar Fishing Harbour	11°21'32"N	79°49'25"E
		(3) Poompuhar Fishing Harbour	11°08'55"N	79°51'22"E
(4)	Thanjavur	(1) Mallipattinam Fishing Harbour	10°16'37"N	79°19'09"E
(5)	Thoothukudi	(1) Thoothukudi Fishing Harbour	08°47'41"N	78°09'36"E
(6)	Kanniyakumari	(1) Chinnamuttom Fishing Harbour	08°05'45"N	77°33'48"E
		(2) Colachel Fishing Harbour	08°10'23"N	77°14'56"E
		(3) Muttom Fishing Harbour	08°07'29"N	77°19'51"E
		(4) Thengapattinam Fishing Harbour	08°14'23"N	77°10'08"E

2. The Governor of Tamil Nadu also hereby notifies the Fish Landing Centres/ Jetties as detailed in Table-II which are in operation in Tamil Nadu as the 'Fish Landing Centres' and the Fish landing points as detailed in Table -III which are in operation in Tamil Nadu as the 'Fish Landing Points', for the purpose of regulation of fishing, strengthening maritime and coastal security against threats from the sea:-

TABLE-II
FISH LANDING CENTRES

Serial Number (1)	District (2)	Fish Landing Centres (3)	Latitude (4)	Longitude (5)
(1)	Thiruvallur	(1) Pulicat	13° 25' 11" N	80° 19' 06" E
		(2) Periyamangodu	13° 29' 15" N	80° 12' 21" E
		(3) Annamalaichery	13° 27' 26" N	80° 15' 49" E
		(4) Ennore Mugathuvarakuppam	13° 13' 36" N	80° 19' 19" E
(2)	Kancheepuram	(1) Kadalore Periya Kuppam	12° 26' 41" N	80° 08' 33" E
(3)	Villupuram	(1) Ekkiyarkuppam	12° 10' 56" N	79° 57' 41" E
(4)	Cuddalore	(1) Annankoil (Parangipettai)	11° 30' 07" N	79° 46' 18" E
		(2) Mudasalodai	11° 29' 02" N	79° 46' 29" E
		(3) M.G.R.Thittu	11° 28' 05" N	79° 46' 47" E
		(4) Samiarpettai	11° 32' 59" N	79° 45' 34" E
(5)	Nagapattinam	(1) Thirumullaivasal	11° 14' 41" N	79° 50' 35" E
		(2) Nagoorpattinacheri	10° 48' 46" N	79° 50' 21" E
		(3) Arucottuthurai	10° 23' 30" N	79° 51' 55" E
		(4) Seruthur	10° 40' 20" N	79° 51' 12" E
(6)	Thanjavur	(1) Sethubavachatram	10° 14' 49" N	79° 16' 54" E
(7)	Pudukottai	(1) Kottaipattinam	09° 58' 52" N	79° 12' 09" E
		(2) Jagathapattinam	09° 57' 43" N	79° 11' 08" E
		(3) Muthukuda	09° 52' 12" N	79° 07' 05" E
		(4) R. Pudhupattinam	09° 54' 34" N	79° 08' 38" E
(8)	Ramanathapuram	(1) Thirupalaikudi North	09° 32' 58" N	78° 55' 09" E
		(2) Devipattinam	09° 28' 38" N	78° 53' 55" E
		(3) Rochmanagar	09° 05' 38" N	78° 23' 11" E
		(4) Keelakarai	09° 13' 39" N	78° 47' 09" E
		(5) Thondi	09° 44' 37" N	79° 01' 19" E
		(6) Mandapam North	09° 17' 09" N	79° 09' 31" E
		(7) Mandapam South	09° 16' 38" N	79° 09' 19" E
		(8) Rameshwaram	09° 16' 51" N	79° 18' 54" E
(9)	Thoothukudi	(1) Tharuvaikulam	08° 53' 16" N	78° 10' 29" E
		(2) Thirespuram	08° 49' 00" N	78° 09' 49" E
		(3) Periyathalai	08° 20' 01" N	77° 58' 21" E
		(4) Punnakkayal	08° 38' 13" N	78° 07' 17" E
		(5) Veerapandianpattinam	08° 31' 08" N	78° 07' 22" E
(10)	Tirunelveli	(1) Uvari	08° 16' 29" N	77° 53' 24" E
(11)	Kanniyakumari	(1) Simon colony	08° 10' 33" N	77° 14' 39" E
		(2) Kurumbanai	08° 11' 17" N	77° 13' 48" E
		(3) Enayam puthenthurai	08° 13' 31" N	77° 10' 53" E

TABLE-III

FISH LANDING POINTS

Serial Number (1)	District (2)	Fish Landing Points (3)	Latitude (4)	Longitude (5)
(1)	Thiruvallur	(1) Arambakkam	13 33'23"N	80 05'08"E
		(2) Ennorekuppam	13 13'42"N	80 18'54"E
		(3) Thazankuppam	13 13'34"N	80 19'19"E
		(4) Kathivakkam Periakuppam	13 12'30"N	80 19'06"E
		(5) Kathivakkam Chinnakuppam	13 12'30"N	80 19'03"E
		(6) Ernavoorkuppam	13 12'07"N	80 18'57"E
		(7) Indira Gandhi Kuppam	13 12'07"N	80 18'57"E
		(8) Kasikoilkuppam	13 09'56"N	80 18'25"E
		(9) Kasivishalakshi kuppam	13 09'56"N	80 18'25"E
		(10) Kasiviswanathar koil Kuppam	13 09'47"N	80 18'19"E
		(11) Palagaithottikuppam	13 09'54"N	80 18'18"E
		(12) Thiruvottiyurkuppam	13 09'47"N	80 18'19"E
		(13) Ondikuppam	13 07'53"N	80 17'54"E
		(14) Thiruchinnankuppam	13 09'01"N	80 18'02"E
		(15) Lakshmiapuram Odaikuppam	13 07'36"N	80 17'46"E
		(16) Nallathanneer Odaikuppam	13 07'57"N	80 17'47"E
(2)	Chennai	(1) Mattankuppam	13 03'30"N	80 17'10"E
		(2) Ayothikuppam	13 03'06"N	80 17'03"E
		(3) Nadukuppam	13 02'50"N	80 16'56"E
		(4) Nochikuppam	13 02'16"N	80 16'51"E
		(5) Mullimanagar	13 01'33"N	80 16'44"E
		(6) Srinivasapuram	13 01'08"N	80 16'42"E
		(7) Orurkuppam	13 00'15"N	80 16'27"E
		(8) Odaikuppam	12 59'44"N	80 16'19"E
		(9) Thiruvanmiyur Kuppam	12 59'04"N	80 16'09"E
(3)	Kancheepuram	(1) Kottivakkam	12 58'05"N	80 15'55"E
		(2) Palavakkam	12 57'37"N	80 15'50"E
		(3) Chinna Neelankarai	12 57'13"N	80 15'45"E
		(4) Periya Neelankarai	12 56'28"N	80 15'36"E
		(5) Chinnandikuppam	12 56'03"N	80 15'32"E
		(6) Injampakkam	12 55'11"N	80 15'25"E
		(7) Panaiyurkuppam	12 53'16"N	80 15'10"E
		(8) Nainarkuppam	12 52'27"N	80 15'04"E
		(9) Kanathur Reddy Kuppam	12 51'08"N	80 14'55"E
		(10) Egattur Karikattukuppam	12 49'13"N	80 14'51"E
		(11) Kovalamkuppam	12 47'26"N	80 15'05"E
		(12) Chemacherry	12 46'33"N	80 15'10"E
		(13) Pudhukalpakkam	12 43'49"N	80 14'13"E
		(14) Nemmelikuppam	12 43'03"N	80 13'56"E
		(15) Soolerikattukuppam	12 42'17"N	80 13'40"E
		(16) Pattipulam	12 41'15"N	80 13'18"E

		(17) Pudu Nemeli Kuppam	12 39'32"N	80 12'41"E
		(18) Salavankuppam	12 39'12"N	80 12'33"E
		(19) Devaneri	12 39'05"N	80 12'30"E
		(20) Mamallapuram	12 37'11"N	80 11'55"E
		(21) Venpursham	12 35'50"N	80 11'27"E
		(22) Kokilamedu	12 35'36"N	80 11'22"E
		(23) Umarikuppam	12 31'42"N	80 10'01"E
		(24) Meyyurkuppam	12 31'45"N	80 10'02"E
		(25) Sathurangapattinam	12 31'23"N	80 09'55"E
		(26) Pudhupattinam Kuppam	12 29'24"N	80 09'32"E
		(27) Uyyalikuppam	12 29'14"N	80 09'31"E
		(28) Kadalore Chinna Kuppam	12 26'55"N	80 08'42"E
		(29) Kadalore Ali Kuppam	12 26'28"N	80 08'24"E
		(30) Angalamman kuppam	12 25'42"N	80 07'51"E
		(31) Pazhaya nadukuppam	12 25'25"N	80 07'39"E
		(32) Pudhu nadukuppam	12 24'59"N	80 07'22"E
		(33) Perun Thuravu Kuppam	12 22'33"N	80 05'24"E
		(34) Paramankeni	12 20'57"N	80 04'05"E
		(35) Mudaliyar Kuppam	12 18'35"N	80 02'19"E
		(36) Panaiyur Chinnakuppam	12 18'26"N	80 02'13"E
		(37) Panaiyur Periya Kuppam	12 17'58"N	80 01'54"E
		(38) Alambaraikuppam	12 16'01"N	80 00'44"E
		(39) Kadappakam	12 16'16"N	80 00'59"E
(4)	Villupuram	(1) Muttukaduzhagankuppam	12°14'23"N	79°59'54"E
		(2) Vasavankuppam	12°13'35"N	79°59'24"E
		(3) Kaippanikuppam	12°12'58"N	79°58'59"E
		(4) Mandavai Pudukuppam	12°09'44"N	79°56'52"E
		(5) Komuttichavadikuppam	12°08'02"N	79°55'44"E
		(6) Anumandhaikuppam	12°07'11"N	79°55'13"E
		(7) Chettinagar	12°06'00"N	79°54'25"E
		(8) Koonimedu Kuppam	12°05'17"N	79°53'59"E
		(9) Nochikuppam	12°04'30"N	79°53'30"E
		(10) Mudaliarkuppam	12°03'48"N	79°53'04"E
		(11) Anichankuppam	12°03'30"N	79°52'54"E
		(12) Pudhukuppam	12°03'06"N	79°52'42"E
		(13) Pillaichavadi	12°00'19"N	79°51'25"E
		(14) Bommaiarpalyam	11°59'36"N	79°51'08"E
		(15) Chinna mudaliarchavadi	11°58'36"N	79°50'44"E
		(16) Thandhirayankuppam	11°58'15"N	79°50'40"E
		(17) Nadukuppam	11°57'50"N	79°50'32"E
		(18) Sodhanaikuppam	11°57'28"N	79°50'26"E
(5)	Cuddalore	(1) Thazhankuda	11 46'00"N	79 47'34"E
		(2) Devanampattinam	11 44'40"N	79 47'17"E
		(3) Sothikuppam	11 41'15"N	79 46'26"E
		(4) Sonaankuppam	11 43'13"N	79 46'55"E
		(5) Rajappettai	11 40'55"N	79 46'21"E
		(6) Chitrappettai	11 38'55"N	79 45'51"E
		(7) Pudhukuppam	11 31'37"N	79 45'57"E
		(8) Pudhupettai	11 30'52"N	79 46'03"E
		(9) Killai	11 25'55"N	79 46'58"E

(6)	Nagapattinam	(1) Madavamedu	11 19'56"N	79 50'11"E
		(2) Kottaimedu	11 19'22"N	79 50'05"E
		(3) Koozhayar	11 17'32"N	79 50'13"E
		(4) Thoduvai	11 16'23"N	79 50'19"E
		(5) Keezhamoovarkarai	11 12'54"N	79 51'01"E
		(6) Chavadikuppam	11 12'30"N	79 51'03"E
		(7) Naickerkuppam	11 11'26"N	79 50'57"E
		(8) Madathukuppam	11 10'59"N	79 51'03"E
		(9) Pudukuppam	11 10'05"N	79 50'51"E
		(10) Vanagiri	11 07'50"N	79 51'26"E
		(11) Chinnangudi	11 05'35"N	79 51'22"E
		(12) Thazhampettai	11 04'54"N	79 51'11"E
		(13) Pudhupettai	11 04'07"N	79 51'11"E
		(14) Perumalpettai	11 03'33"N	79 51'19"E
		(15) Bommayanpettai (Vellakoil)	11 03'08"N	79 51'19"E
		(16) Kuttiyandiyur	11 02'40"N	79 51'16"E
		(17) Tharangampadi	11 01'55"N	79 51'15"E
		(18) Chandrappadi	10 59'55"N	79 51'09"E
		(19) Chinnorpettai	10 59'09"N	79 51'09"E
		(20) Chinna medu	11 06'16"N	79 51'24"E
		(21) Chinna kottaimedu	11 18'22"N	79 50'12"E
		(22) Samanathanpettai	10 47'41"N	79 50'42"E
		(23) Nambiarnagar	10 46'41"N	79 50'52"E
		(24) Velankanni	10 40'55"N	79 50'37"E
		(25) Kameswaram	10 37'23"N	79 51'05"E
		(26) Vilunthamavadi	10 35'35"N	79 50'03"E
		(27) Vanavanmadevi	10 32'04"N	79 50'27"E
		(28) Vellapallam	10 30'40"N	79 49'52"E
		(29) Pushpavanam	10 27'33"N	79 50'54"E
		(30) Kodiyakarai	10 17'04"N	79 49'27"E
		(31) Seruthalaikadu	10 23'02"N	79 43'31"E
(7)	Thiruvarur	(1) Muttupettai	10 24'01"N	79 30'02"E
(8)	Thanjavur	(1) Ganesapuram	10 08'27"N	79 13'44"E
		(2) Chinnamanai	10 16'20"N	79 18'46"E
		(3) Gandhinagar	10 19'32"N	79 23'35"E
		(4) Maravakadu	10 21'33"N	79 26'20"E
		(5) Vallavanpattinam	10 09'02"N	79 13'52"E
		(6) Annanagar Pudhutheru	10 09'57"N	79 14'19"E
		(7) Somanathanpattinam	10 09'25"N	79 14'20"E
		(8) Sembiyanmadevipattinam	10 08'16"N	79 13'44"E
		(9) Karaiyurtheru	10 19'51"N	79 23'40"E
		(10) Senthalaivayal	10 11'12"N	79 14'53"E
		(11) Thambikottai	10 22'55"N	79 29'02"E
		(12) Kazhumanguda	10 14'36"N	79 16'36"E
		(13) Kollukadu	10 17'40"N	79 20'48"E
		(14) Karanguda	10 14'14"N	79 16'15"E
		(15) Sambaipattinam	10 13'31"N	79 15'59"E

		(16) Mandhiripattinam	10° 10'14"N	79° 14'14"E
		(17) Adaikkadevan	10° 11'40"N	79° 15'37"E
		(18) Pillayarthidal	10° 15'35"N	79° 17'38"E
		(19) Eripurakkurai	10° 19'09"N	79° 22'50"E
		(20) Keelathottam	10° 17'55"N	79° 21'53"E
		(21) Velivayal	10° 17'14"N	79° 20'30"E
		(22) Subbamachatram	10° 09'10"N	79° 14'15"E
		(23) Puthupattinam	10° 17'09"N	79° 20'03"E
(9)	Pudukottai	(1) Kattumavadi	10°07'49"N	79°13'45"E
		(2) Prathabiramanpattinam	10°06'08"N	79°13'38"E
		(3) Krishnajiipattinam	10°05'55"N	79°13'35"E
		(4) Vadaku Amapattinam	10°02'55"N	79°15'04"E
		(5) Seetharampattinam	10°04'34"N	79°14'07"E
		(6) Keelakudiyiruppu	10°02'18"N	79°15'57"E
		(7) Ponagaram	10°01'39"N	79°14'44"E
		(8) Ayyampattinam	09°57'34"N	79°10'57"E
		(9) Muthanenthal	09°57'18"N	79°10'42"E
		(10) Anthoniyarpuram	10°01'23"N	79°14'27"E
		(11) Pudhukkudi north	09°59'49"N	79°13'01"E
		(12) Pudhukkudi south	09°59'34"N	79°12'47"E
(10)	Ramanathapuram	(1) Pathanendal	09° 30'55"N	78° 54'50"E
		(2) Pamban	09° 16'56"N	79° 12'32" E
		(3) Olaikuda	09° 19'04"N	79° 19'52" E
		(4) Kundhukal	09° 15'35"N	79° 13'27" E
		(5) Mukuntharayarchatram	09° 11'57"N	79° 22'54" E
		(6) Dhanushkodi	09° 11'13"N	79° 24'50" E
		(7) Chinnapalam	09° 16'22"N	79° 12'55"E
		(8) Thangachimadam	09° 17'28"N	79° 14'57"E
		(9) Theerthaandathanam	09° 49'32"N	79° 05'22"E
		(10) Pasipattinam	09° 48'42"N	79° 04'49"E
		(11) Dhamostraranpattinam	09° 47'33"N	79° 04'07"E
		(12) Narendhal	09° 46'13"N	79° 02'54"E
		(13) M.R.Pattinam	09° 45'48"N	79° 02'14"E
		(14) Nambuthalai	09° 43'30"N	79° 00'30"E
		(15) Pudhupattinam	09° 40'49"N	78° 58'34"E
		(16) Karankadu	09° 38'47"N	78° 57'30"E
		(17) Mullimanai	09° 39'27"N	78° 58'15"E
		(18) Morepannai	09° 36'37"N	78° 56'09"E
		(19) Devipattinam North	09° 28'38"N	78° 53'55"E
		(20) Devipattinam South	09° 28'22"N	78° 53'58"E
		(21) Palanivalasai	09° 25'25"N	78° 55'34"E
		(22) Mudiveeranpattinam	09° 26'03"N	78° 55'10"E
		(23) Pudhuvalasaichathiram	09° 23'49"N	78° 56'43"E
		(24) Athankarai	09° 20'54"N	78° 59'31"E
		(25) Valasapatinam(P.V.Pattinam)	09° 46'02"N	79° 02'39"E
		(26) Pudukkudi	09° 22'19"N	78° 57'34"E
		(27) Panaikulam	09° 22'29"N	78° 57'18"E
		(28) Alagankulam	09° 21'46"N	78° 58'12"E
		(29) Kalimankundu	09° 15'24"N	78° 52'28"E
		(30) Munaikadu	09° 17'13"N	79° 07'57"E
		(31) Vedhalai	09° 15'48"N	79° 06'13"E

(11)	Thoothukudi	(1) Vembar	09 04'35"N	78 21'54"E
		(2) Keezhavaippar	08 59'44"N	78 15'16"E
		(3) Sippikulam	08 59'38"N	78 15'08"E
		(4) Pattinamaruthur	08 55'21"N	78 11'09"E
		(5) Vellapatti	09 06'50"N	78 25'00"E
		(6) Palayakayal	08 40'15"N	78 06'11"E
		(7) Kombuthurai Madhakoil	08 34'50"N	78 08'12"E
		(8) Amalinagar	08 29'20"N	78 07'27"E
		(9) Alanthalai	08 27'51"N	78 05'59"E
		(10) Kulasekarappattinam	08 23'39"N	78 03'28"E
		(11) Manappadu	08 22'39"N	78 03'29"E
		(12) Kallamozhi	08 26'37"N	78 04'58"E
		(13) Jeevanagar	08 30'07"N	78 07'33"E
		(14) Singhithurai	08 34'07"N	78 08'04"E
		(15) Ratchanyapuram	08 40'14"N	78 06'10"E
		(16) New Harbour	08 44'38"N	78 10'15"E
		(17) Inico nagar	08 47'23"N	78 09'40"E
		(18) Thalamuthunagar	08 50'03"N	78 09'55"E
		(19) Periasampuram	09 02'41"N	78 19'36"E
(12)	Tirunelveli	(1) Kooduthalai	08 17'55"N	77 55'41"E
		(2) Koottappanai	08 17'24"N	77 54'32"E
		(3) Kootapuli	08 08'48"N	77 36'06"E
		(4) Idinthakarai	08 10'42"N	77 44'47"E
		(5) Koothanguzhi	08 12'54"N	77 46'47"E
		(6) Perumanal	08 09'32"N	77 38'49"E
		(7) Thommayarpuram(Muddukuli)	08°11'32 "N	77°45'41 "E
(13)	Kanniyakumari	(1) Arokiapuram	08 07'09"N	77 33'31"E
		(2) Chinnamuttom	08 05'45"N	77 33'33"E
		(3) Kanyakumari	08 05'10"N	77 33'13"E
		(4) Puthugramam (Vavuthurai)	08 04'53"N	77 33'05"E
		(5) Kovalam	08 04'53"N	77 31'30"E
		(6) Keezhamanakudi	08 05'32"N	77 29'44"E
		(7) Mela Manakudi	08 05'24"N	77 30'11"E
		(8) Pallam	08 05'55"N	77 25'56"E
		(9) Puthenthurai	08 06'03"N	77 25'21"E
		(10) Kesavanputhenthurai	08 06'19"N	77 24'22"E
		(11) Pozhikkarai	08 06'22"N	77 24'13"E
		(12) Periyakadu	08 06'37"N	77 23'18"E
		(13) Rajakkamangalam Thurai	08 06'53"N	77 22'42"E
		(14) Azhikkal	08 07'31"N	77 20'20"E
		(15) Keezhamuttom	08 07'29"N	77 19'52"E
		(16) Melamuttom	08 07'24"N	77 19'03"E
		(17) Keezhakadiappattinam	08 07'45"N	77 18'26"E
		(18) Melakadiappattinam	08 08'07"N	77 18'17"E
		(19) Chinnavilai	08 08'48"N	77 18'04"E
		(20) Periavilai	08 09'08"N	77 17'37"E
		(21) Puthur Mandaikadu	08 09'41"N	77 16'42"E
		(22) Kottilpadu	08 10'11"N	77 15'49"E
		(23) Kodimunai	08 10'38"N	77 14'22"E
		(24) Vaniyakudi	08 10'53"N	77 14'05"E

(25) Melakurumpanai	08° 11' 17" N	77° 13' 48" E
(26) Midalam (Naduthurai)	08° 12' 10" N	77° 12' 55" E
(27) Melmidalam	08° 12' 25" N	77° 12' 26" E
(28) Enayam	08° 13' 01" N	77° 11' 23" E
(29) Enayam Chinnathurai	08° 13' 12" N	77° 11' 03" E
(30) Ramanthurai	08° 13' 43" N	77° 10' 44" E
(31) Mulloorthurai	08° 13' 57" N	77° 10' 31" E
(32) Erayumanthurai	08° 14' 42" N	77° 09' 43" E
(33) Poothurai	08° 15' 24" N	77° 08' 51" E
(34) Thoothur	08° 15' 29" N	77° 08' 44" E
(35) Ezhudesam Chinnathurai	08° 15' 47" N	77° 08' 17" E
(36) Eraviputhenthurai	08° 15' 53" N	77° 08' 06" E
(37) Vallavilai	08° 16' 44" N	77° 06' 57" E
(38) Marthandamthurai	08° 17' 06" N	77° 06' 29" E
(39) Neerodi	08° 17' 20" N	77° 06' 08" E

(BY ORDER OF THE GOVERNOR)

S.VIJAYAKUMAR
Secretary to Government

To

The Works Manager,

Government Central Press, Chennai-79.

(for publication and Notification and to send 50 copies to Government).

The Commissioner of Fisheries, Chennai-6.

The Chief Engineer (A/c), Fishing Harbour Project Circle, Chennai - 6.

The Joint Secretary, Government of India, Ministry of Agriculture, Department of Animal Husbandry, Dairying and Fisheries, New Delhi-110 001.

The Joint Secretary, Government of India, Ministry of Home Affairs, Department of Border Management, New Delhi-110 001.

The Director General, Coast Guard, New Delhi.

Copy to:

The Public Department, Chennai-9.

The Home Department, Chennai-9.

The Law Department, Chennai - 9.

The Senior Personal Assistant to Hon'ble Minister(Fisheries)Chennai - 9.

The Private Secretary to Secretary to Government,

Animal Husbandry, Dairying and Fisheries Department, Chennai-9.

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//Forwarded By Order//


8/7/15
Section Officer

Annexure II
NABET CERTIFICATE



Quality Council of India



National Accreditation Board for Education & Training

Certificate of Accreditation

Cholamandalam MS Risk Services Limited

Dare House, 4th Floor, No.2, NSC Bose Road, Chennai, Tamil Nadu

Accredited as Category - A organization under the QCI-NABET Scheme for Accreditation of EIA Consultant Organizations: Version 3 for preparing EIA-EMP reports in the following Sectors:

Sl.No	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1	Mining of minerals	1	1 (a) (i)	A
2	River Valley Projects	3	1 (c)	A
3	Thermal power plants	4	1 (d)	A
4	Cement plants	9	3 (b)	A
5	Petroleum refining industry	10	4 (a)	A
6	Chemical Fertilizers	16	5 (a)	A
7	Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)	21	5 (f)	A
8	Oil & gas transportation pipeline (crude and refinery/ petrochemical products), passing through national parks/ sanctuaries/coral reefs /ecologically sensitive Areas including LNG terminal	27	6 (a)	B
9	Pulp & paper industry excluding manufacturing of paper from waste paper and manufacture of paper from ready pulp without bleaching	24	5 (i)	A
10	Industrial estates/ parks/ complexes/ Areas, export processing zones (EPZs), Special economic zones (SEZs), Biotech parks, Leather complexes	31	7 (c)	A
11	Ports, harbors, break waters and dredging	33	7 (e)	A
12	Building and construction projects	38	8 (a)	B
13	Townships and Area development projects	39	8 (b)	A

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in SA AC minute dated May 25 and July 6, 2018 posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/18/0796 dated November 15, 2018. The accreditation needs to be renewed before the expiry date by Cholamandalam MS Risk Services Limited e following due process of assessment.

Sr. Director, NABET
Dated: November 15, 2018

Certificate No.
NABET/EIA/1619/ SA 076

Valid up to
May 23, 2019

For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to QCI-NABET website.



**National Accreditation Board
for Education and Training**

(Member - International Accreditation Forum & Pacific Accreditation Cooperation)



QCI/NABET/ENV/ACO/19/1248

25 February 2020

Cholamandalam MS Risk Services Limited.

Dare House, 4th Floor, No.2, NSC Bose Road,
Chennai - 600001

(Kind Attention: Mr. N. V. Subbarao)

Sub: Validity of Accreditation

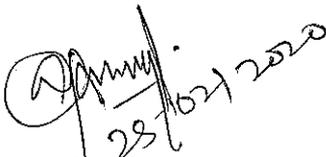
Dear Sir,

This has reference to the accreditation of your organization under QCI-NABET EIA Scheme, the validity of **Cholamandalam MS Risk Services Limited**, is hereby extended till May 24, 2020 or completion of assessment process, whichever is earlier.

The above extension is subject to the submission of required information/documents related to assessment on time to NABET.

You are requested not to use this letter after expiry of the above stated date.

With best regards,


A.K Jha
Senior Director | NABET

Annexure III
NABL CERTIFICATE



**National Accreditation Board for
Testing and Calibration Laboratories**

(A Constituent Board of Quality Council of India)



CERTIFICATE OF ACCREDITATION

CHENNAI TESTING LABORATORY PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

A-SUPER 19, TVK INDUSTRIAL ESTATE, GUINDY, CHENNAI, TAMIL NADU, INDIA

in the field of

TESTING

Certificate Number: TC-6133

Issue Date: 08/06/2019

Valid Until: 07/06/2021

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer

Annexure IV
Soil Test Reports

CIN : U74999TN2008PTC067568

TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.					
Project At		Fishing Harbour Project, Marakkanam, Tamilnadu					
Quantity Received	1 Kg Each	Sampled By		Chennai Testing Laboratory Pvt. Ltd.,			
Date of Receipt	21.10.2019	Sampling Method		CTL/QSP/10			
Analysis Starting Date	22.10.2019	Sample Condition		Good			
Analysis Completion Date	02.11.2019	Report Date		02.11.2019			
Report Number		CTL/CH/N-21361/19-20	CTL/CH/N-21362/19-20	CTL/CH/N-21363/19-20	CTL/CH/N-21364/19-20		
Sample Description		Soil - 1	Soil - 2	Soil - 3	Soil - 4		
Sampling location		Azhakan Kuppan Road	Kadapakkam Project Site	Vilambur	Vedal Village		
GPS Reading		12°14'45.324"N & 79°59'30.159"E	12°15'46.73"N & 80°0'8.461"E	12°17'29.81"N & 79°59'45.969"E	12°17'54.898"N & 79°58'30.292"E		
Sampling Date		20.10.2019	18.10.2019	19.10.2019	19.10.2019		
S.NO	PARAMETERS	METHOD	UNITS	RESULTS			
1	Texture:	FAO Method (Page No.25) 2007	%	76.3	68.4	29.5	33.1
	Sand			13.6	5.2	47.2	53.4
	Silt			10.0	26.4	23.3	13.5
2	Clay						
2	pH	EPA Method-9045 D Rev4,2004	-	6.4	8.0	6.8	6.4
3	Moisture	IS 2720 (Part 2):1973 (R.2010)	%	8.62	14.22	6.32	6.52
4	Conductivity	IS 14767 : 2000	µs/cm	417	826	321	662
5	Specific gravity	IS 2720 (Part 3) Sec-1, 1980	g/cm ³	1.74	1.62	1.68	1.36
6	Porosity	FAO Method(Page No.39)2007	%	24	26	36	32
7	Sodium as Na	IS 10158-1982(RA 2003)	mg/kg	48.4	4645	36.8	884
8	Available Nitrogen		mg/kg	126	142	396	410
9	Nitrate Nitrogen	FAO Method(Page No.66)2007 (Phenol disulfonic acid Method)	mg/kg	21.4	28.7	36.2	41.7
10	Available Phosphorus as P	FAO Method(Page No.75), 2007 (Olsen's Method)	mg/kg	62.4	67.2	74.2	88
11	Calcium as Ca	FAO Method(Page No.44), 2007 (EDTA Titrimetric Method)	mg/kg	16	80	40	26
12	Magnesium as Mg		mg/kg	20	292	24	34
13	Acidity as CaCO ₃	Titrimetric Method	mg/kg	12	Nil	8	10
14	Alkalinity as CaCO ₃	FAO Method(Page No.46)2007	mg/kg	96	214	104	306
15	Sulphate Sulphur as S	FAO Method(Page No.80)2007	mg/kg	8.8	6.5	13.4	14.4
16	Boron as B	FAO Method(Page No.93), 2007 (Carminic Method)	mg/kg	1.3	0.8	0.6	0.4
17	Total Organic Carbon	FAO Method (Pg. No.61) 2007 (walkley Black wet combustion method)	%	0.17	0.12	0.26	0.24
18	Chloride as Cl	FAO Method(Page No.48)2007 (Titrimetric Method)	mg/kg	49	244	52	66
19	Sodium Absorption Ratio	IS 11624-1986(RA.2001)	-	5.8	10.2	6.1	7.2
20	Bulk Density	FAO Method(Page No.35)2007	g/cm ³	1.74	1.62	1.68	1.36

For Chennai Testing Laboratory Pvt Ltd

A. Raju

Authorised Signatory

Page 1 of 2

The Report shall not be used to malign, defame and for any malicious purpose.
The Report is meant only for sole use of the addressee to promote his/her own business.

CIN : U74999TN2008PTC067568

TEST REPORT

S.NO	PARAMETERS	METHOD	UNITS	RESULTS			
21	Water Holding Capacity	CTL/SOP/SOIL/024	%	12.6	13.9	17.8	20.9
22	Available Potassium	FAO Method(Page No.77) (Flame Photometric Method)-2007	mg/kg	149	820	84.4	153
23	Iron as Fe	EPA 3050B-1996 (Rev-2)/EPA 7380-1986	%	0.18	0.41	0.25	0.35
24	Cadmium as Cd	EPA 3050B-1996 (Rev-2)/EPA 7130-1986	mg/kg	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)
25	Chromium as Cr	EPA 3050B-1996 (Rev-2)/EPA 7190-1986	mg/kg	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)
26	Manganese as Mn	EPA 3050B-1996 (Rev-2)/EPA 7460-1986	mg/kg	15.59	48.65	29.46	42.66
27	Lead as Pb	EPA 3050B-1996 (Rev-2)/EPA 7420-1986	mg/kg	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)
28	Zinc as Zn	EPA 3050B-1996 (Rev-2)/EPA 7950-1986	mg/kg	12.72	14.97	22.35	18.88
29	Copper as Cu	EPA 3050B-1996 (Rev-2)/EPA 7210-1986	mg/kg	BDL(DL:3.0)	3.34	3.55	4.46
30	Mercury as Hg	EPA 7471A-2007 (Rev-2)	mg/kg	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)
31	Molybdenum as Mo	EPA 3050B-1996 (Rev-2)/EPA 7480-1986	mg/kg	BDL(DL:10.0)	BDL(DL:10.0)	BDL(DL:10.0)	BDL(DL:10.0)
Poly Aromatic Hydrocarbons (PAH's)							
32	Naphthalene	CTL/SOP/SOIL & SLUDGE/021 - 2014	mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Acenaphthylene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	2-Bromo-Naphthalene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Acenaphthene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Fluorene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Phenanthrene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Anthracene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Pyrene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Fluoranthene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Chrysene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Benz[a]anthracene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Benzo[a]pyrene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Benzo[b]fluoranthene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Benzo[ghi]perylene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
Dibenz[a,h]anthracene	mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)		
Indeno[1,2,3-cd]pyrene	mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)		

BDL - Below Detection Limit; DL - Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

A. Raju
Authorised Signatory

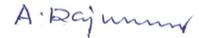
Page 2 of 2

CIN : U74999TN2008PTC067568

TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.										
Project At		Fishing Harbour Project, Marakkanam, Tamilnadu										
Quantity Received	1 Kg Each	Sampled By		Chennai Testing Laboratory Pvt. Ltd.,								
Date of Receipt	21.10.2019	Sampling Method		CTL/QSP/10								
Analysis Starting Date	22.10.2019	Sample Condition		Good								
Analysis Completion Date	02.11.2019	Report Date		02.11.2019								
Report Number		CTL/CH/N-21365/19-20	CTL/CH/N-21366/19-20	CTL/CH/N-21367/19-20	CTL/CH/N-21368/19-20							
Sample Description		Soil - 5	Soil - 6	Soil - 7	Soil - 8							
Sampling location		Nallur	Kadukalur	Jhngal Village	Karipalayam							
GPS Reading		12°15'52.124"N & 79°58'11.495"E	12°17'12.659"N & 79°56'40.936"E	12°15'14.575"N & 79°56'10.134"E	12°11'46.952"N & 79°57'2.587"E							
Sampling Date		18.10.2019	18.10.2019	18.10.2019	18.10.2019							
S.NO	PARAMETERS	METHOD	UNITS	RESULTS								
1	Texture:	FAO Method (Page No.25) 2007										
	Sand							%	38.2	19.3	79.2	28.4
	Silt							%	50.7	37.2	13.8	50.4
	Clay	%	11.1	43.5	7.04	21.2						
2	pH	EPA Method-9045 D Rev4,2004	-	6.9	7.6	5.6	5.1					
3	Moisture	IS 2720 (Part 2):1973 (R.2010)	%	4.66	12.71	4.06	4.72					
4	Conductivity	IS 14767 : 2000	µs/cm	337	481	108	316					
5	Specific gravity	IS 2720 (Part 3) Sec-1, 1980	g/cm ³	1.62	1.50	1.36	1.48					
6	Porosity	FAO Method(Page No.39)2007	%	32	38	26	34					
7	Sodium as Na	IS 10158-1982(RA 2003)	mg/kg	41.6	207	12.5	36.9					
8	Available Nitrogen		mg/kg	328	412	138	378					
9	Nitrate Nitrogen	FAO Method(Page No.66)2007 (Phenol disulfonic acid Method)	mg/kg	41.82	36.7	17.6	32.4					
10	Available Phosphorus as P	FAO Method(Page No.75), 2007 (Olsen's Method)	mg/kg	111	50.2	48.2	67.1					
11	Calcium as Ca	FAO Method(Page No.44), 2007 (EDTA Titrimetric Method)	mg/kg	46	62	12	36					
12	Magnesium as Mg		mg/kg	14	22	18	16					
13	Acidity as CaCO ₃	Titrimetric Method	mg/kg	6	3	21	28					
14	Alkalinity as CaCO ₃	FAO Method(Page No.46)2007	mg/kg	118	134	68	50					
15	Sulphate Sulphur as S	FAO Method(Page No.80)2007	mg/kg	18.3	22.1	17.4	39.3					
16	Boron as B	FAO Method(Page No.93), 2007 (Carmine Method)	mg/kg	0.8	0.4	1.6	0.7					
17	Total Organic Carbon	FAO Method (Pg. No.61) 2007 (walkley Black wet combustion method)	%	0.22	0.36	0.18	0.33					
18	Chloride as Cl	FAO Method(Page No.48)2007 (Titrimetric Method)	mg/kg	73	24	62	42					
19	Sodium Absorption Ratio	IS 11624-1986(RA.2001)	-	6.7	5.4	7.8	4.8					
20	Bulk Density	FAO Method(Page No.35)2007	g/cm ³	1.62	1.50	1.36	1.48					

For Chennai Testing Laboratory Pvt Ltd



Authorised Signatory

Page 1 of 2

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CIN : U74999TN2008PTC067568

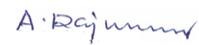
TEST REPORT

S.NO	PARAMETERS	METHOD	UNITS	RESULTS			
21	Water Holding Capacity	CTL/SOP/SOIL/024	%	16.4	18.1	12.3	17.2
22	Available Potassium	FAO Method(Page No.77) (Flame Photometric Method)-2007	mg/kg	182	542	63.6	123
23	Iron as Fe	EPA 3050B-1996 (Rev-2)/EPA 7380-1986	%	0.21	1.22	0.06	0.19
24	Cadmium as Cd	EPA 3050B-1996 (Rev-2)/EPA 7130-1986	mg/kg	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)
25	Chromium as Cr	EPA 3050B-1996 (Rev-2)/EPA 7190-1986	mg/kg	BDL(DL:5.0)	58.65	BDL(DL:5.0)	BDL(DL:5.0)
26	Manganese as Mn	EPA 3050B-1996 (Rev-2)/EPA 7460-1986	mg/kg	22.20	47.63	14.74	42.20
27	Lead as Pb	EPA 3050B-1996 (Rev-2)/EPA 7420-1986	mg/kg	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)
28	Zinc as Zn	EPA 3050B-1996 (Rev-2)/EPA 7950-1986	mg/kg	8.46	36.34	7.23	9.65
29	Copper as Cu	EPA 3050B-1996 (Rev-2)/EPA 7210-1986	mg/kg	5.64	39.35	BDL(DL:3.0)	4.60
30	Mercury as Hg	EPA 7471A-2007 (Rev-2)	mg/kg	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)
31	Molybdenum as Mo	EPA 3050B-1996 (Rev-2)/EPA 7480-1986	mg/kg	BDL(DL:10.0)	BDL(DL:10.0)	BDL(DL:10.0)	BDL(DL:10.0)
Poly Aromatic Hydrocarbons (PAH's)							
32	Naphthalene	CTL/SOP/SOIL & SLUDGE/021 - 2014	mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Acenaphthylene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	2-Bromo-Naphthalene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Acenaphthene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Fluorene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Phenanthrene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Anthracene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Pyrene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Fluoranthene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Chrysene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Benz[a]anthracene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Benzo[a]pyrene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Benzo[b]fluoranthene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
	Benzo[ghi]perylene		mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)
Dibenz[a,h]anthracene	mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)		
Indeno[1,2,3-cd]pyrene	mg/kg	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)	BDL (DL:0.5)		

BDL - Below Detection Limit; DL - Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd



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Annexure V
Groundwater Test Reports

CIN : U74999TN2008PTC067568

TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.					
Project At		Fishing Harbour Project, Marakkanam, Tamilnadu					
Quantity Received	5 Litres Each	Sampled By		Chennai Testing Laboratory Pvt. Ltd.,			
Date of Receipt	21.10.2019	Sampling Method		CTL/QSP/09			
Analysis Starting Date	22.10.2019	Sample Condition		Good			
Analysis Completion Date	02.11.2019	Report Date		02.11.2019			
Report Number		CTL/CH/N-21347/19-20	CTL/CH/N-21348/19-20	CTL/CH/N-21349/19-20	CTL/CH/N-21350/19-20		
Sample Description		Ground Water-1	Ground Water-2	Ground Water-3	Ground Water-4		
Sampling Location		Kadapakkam Project Site	Panaiyur Village	Vedal Village	Kadukalur		
GPS Reading		12°15'46.729"N & 80°0'8.462"E	12°19'7.822"N & 80°1'50.008"E	12°18'3.591"N & 79°58'13.33"E	12°17'4.593"N & 79°56'50.155"E		
Sampling Date		18.10.2019	19.10.2019	19.10.2019	18.10.2019		
S.NO	PARAMETERS	METHOD	UNITS	RESULTS			
1	Colour	IS 3025 (Part 4)-1983 (R.2017)	HU	10	5	5	2
2	Odour	IS 3025 (Part 5)-1983 (R.2017)	-	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
3	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Disagreeable	Disagreeable	Disagreeable	Disagreeable
4	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	69	14	2	2
5	pH @ 25°C	IS 3025 (Part 11)-1983 (R.2017)	-	7.1	5.6	7.7	7.1
6	Conductivity @ 25°C	IS 3025 (Part 14)-1984 (R.2013)	µs/cm	8654	287	2668	2912
7	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2014)	mg/l	1753	32	776	767
8	Iron as Fe	IS 3025 (Part 53)-2003 (R.2014)	mg/l	20.1	4.17	0.3	0.14
9	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2014)	mg/l	2730	70	783	612
10	Total Residual Chlorine	IS 3025 (Part 26)-1986 (R.2014)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
11	Oil & Grease	5520-O&G-B APHA 23rd Edn.2017 (Partition Gravimetric Method)	mg/l	< 2	< 2	< 2	< 2
12	Fluoride as F ⁻	IS 3025 (Part 60)-2008 (R.2013)	mg/l	0.44	0.12	0.16	0.22
13	Total Dissolved Solids	IS 3025 (Part 16)-1984 (R.2017)	mg/l	5380	186	1570	1810
14	Total Suspended Solids	IS 3025 (Part 17)-1984 (R.2017)	mg/l	38	4	21	3
15	P. Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2014)	mg/l	Nil	Nil	Nil	Nil
16	M-Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2014)	mg/l	280	13	172	484
17	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2014)	mg/l	280	13	172	484
18	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2014)	mg/l	360	8	151	164
19	Sodium as Na	IS 3025 (Part 45)-1993 (R.2014)	mg/l	1162	39.5	271	248
20	Potassium as K	IS 3025 (Part 45)-1993 (R.2014)	mg/l	34.2	3.1	7.3	122
21	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2014)	mg/l	208	3	97	87
22	Sulphate as SO ₄	IS 3025 (Part 24)-1986 (R.2014)	mg/l	620	9.4	104	159
23	Nitrate as NO ₃	IS 3025 (Part 34)-1988 (R.2014)	mg/l	1.4	0.3	0.81	0.98
24	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43)-1992 (R.2014)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
25	Cyanide as CN ⁻	IS 3025 (Part 27)-1986 (R.2014)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
26	Anionic detergent as MBAS	IS 13428-2005 (R.2014) (Annex K)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
27	Mineral oil	IS 3025 (Part 39)-1991 (R.2014)	mg/l	Absent	Absent	Absent	Absent
28	Dissolved Oxygen	4500-O-C-APHA 23rd Edn.2017	mg/l	6.9	7.0	6.8	7.0
29	Boron as B	IS 3025 (Part 57)-2005 (R.2017)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
30	Silica as SiO ₂	IS 3025 (Part 35)-1988 (R.2014)	mg/l	51.1	30	32.6	86.8

For Chennai Testing Laboratory Pvt Ltd

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CIN : U74999TN2008PTC067568

TEST REPORT

S.NO	PARAMETERS	METHOD	UNITS	RESULTS			
31	Biochemical Oxygen Demand (BOD) 3 days @ 27°C	5210-B APHA 23rd Edn.2017	mg/l	< 2	< 2	< 2	< 2
32	Chemical Oxygen Demand (COD)	5220-B- APHA 23rd Edn.2017	mg/l	< 4	< 4	< 4	< 4
33	Salinity	2520-B-APHA 23rd Edn.2017	ppt	5.38	0.18	1.57	1.8
34	Copper as Cu	IS 3025 (Part 42)-1992 (R.2014)	mg/l	0.31	BDL (DL:0.02)	0.18	0.16
35	Manganese as Mn	3111-B-APHA 23rd Ed.2017	mg/l	1.21	BDL (DL:0.01)	0.05	0.03
36	Mercury as Hg	IS 3025 (Part 48)-1994 (R.2014)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
37	Cadmium as Cd	IS 3025 (Part 41)-1992 (R.2014)	mg/l	BDL(DL:0.002)	BDL(DL:0.002)	BDL(DL:0.002)	BDL(DL:0.002)
38	Selenium as Se	IS 3025 (Part 56)-2003(R.2014)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
39	Total Arsenic as As	IS 3025 (Part 37)-1988 (R.2014)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
40	Lead as Pb	IS 3025 (Part 47)-1994 (R.2014)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
41	Zinc as Zn	IS 3025 (Part 49)-1994 (R.2014)	mg/l	0.09	BDL(DL:0.08)	BDL(DL:0.08)	BDL(DL:0.08)
42	Total Chromium as Cr	IS 3025(Part 52)-2003 (R.2014)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
43	Nickel as Ni	IS 3025 (Part 54)-2003 (R.2014)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
44	Aluminium as Al	IS 3025 (Part 55)-2003 (R.2014)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Pesticide Residues							
Organo chlorine Pesticide(OCPs)							
45	Aldrin	CTL/SOP/WATER/101-2014	µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Dieldrin		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Endosulfan alpha		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Endosulfan Beta		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Endosulfan Sulfate		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	o,p'-DDT		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	p,p'-DDT		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	p,p'-DDE		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	o,p'-DDE		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	o,p'-DDD		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	p,p'-DDD		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Alpha HCH		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Beta HCH		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Gamma HCH (Lindane)		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Delta HCH	µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)		
Organo Phosphorus Pesticide(OPPs)							
46	Chlorpyrifos	CTL/SOP/WATER/101-2014	µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Ethion		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Malathion and its (Malaoxan)		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Monocrotophos		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Methyl Parathion and its (Paraoxan)		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Butachlor		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Alachlor		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
46	Total Coliform	IS 1622 : 1981 (R.2019)	MPN/100 ml	30	< 2	4	2

BDL - Below Detection Limit; DL - Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

A. Raju
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CIN : U74999TN2008PTC067568

TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.					
Project At		Fishing Harbour Project, Marakkanam, Tamilnadu					
Quantity Received	5 Litres Each	Sampled By		Chennai Testing Laboratory Pvt. Ltd.,			
Date of Receipt	21.10.2019	Sampling Method		CTL/QSP/09			
Analysis Starting Date	22.10.2019	Sample Condition		Good			
Analysis Completion Date	02.11.2019	Report Date		02.11.2019			
Report Number		CTL/CH/N-21351/19-20	CTL/CH/N-21352/19-20	CTL/CH/N-21353/19-20	CTL/CH/N-21354/19-20		
Sample Description		Ground Water-5	Ground Water-6	Ground Water-7	Ground Water-8		
Sampling Location		Nallur	Thangal Village	Kolathur	Marakkanam Village		
GPS Reading		12°15'52.105"N & 79°58'11.666"E	12°15'15.693"N & 79°56'10.826"E	12°11'45.005"N & 79°56'45.99"E	12°11'55.35"N & 79°57'5.996"E		
Sampling Date		18.10.2019	18.10.2019	18.10.2019	18.10.2019		
S.NO	PARAMETERS	METHOD	UNITS	RESULTS			
1	Colour	IS 3025 (Part 4)-1983 (R.2017)	HU	20	2	2	2
2	Odour	IS 3025 (Part 5)-1983 (R.2017)	-	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
3	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Disagreeable	Disagreeable	Disagreeable	Disagreeable
4	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	77	8	5	3
5	pH @ 25°C	IS 3025 (Part 11)-1983 (R.2017)	-	6.5	7.8	5.7	6.7
6	Conductivity @ 25°C	IS 3025 (Part 14)-1984 (R.2013)	µs/cm	204	737	457	635
7	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2014)	mg/l	34	122	35	70
8	Iron as Fe	IS 3025 (Part 53)-2003 (R.2014)	mg/l	4.97	0.17	5.9	0.27
9	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2014)	mg/l	15	131	97	79
10	Total Residual Chlorine	IS 3025 (Part 26)-1986 (R.2014)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
11	Oil & Grease	5520-O&G-B APHA 23rd Edn.2017 (Partition Gravimetric Method)	mg/l	< 2	< 2	< 2	< 2
12	Fluoride as F	IS 3025 (Part 60)-2008 (R.2013)	mg/l	BDL(DL:0.1)	0.14	BDL(DL:0.1)	BDL(DL:0.1)
13	Total Dissolved Solids	IS 3025 (Part 16)-1984 (R.2017)	mg/l	142	410	270	380
14	Total Suspended Solids	IS 3025 (Part 17)-1984 (R.2017)	mg/l	14	2	3	8
15	P. Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2014)	mg/l	Nil	Nil	Nil	Nil
16	M-Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2014)	mg/l	34	86	15	146
17	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2014)	mg/l	34	86	15	146
18	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2014)	mg/l	10	34	9	20
19	Sodium as Na	IS 3025 (Part 45)-1993 (R.2014)	mg/l	13.8	88.3	64.7	71.9
20	Potassium as K	IS 3025 (Part 45)-1993 (R.2014)	mg/l	8.1	8.2	4.36	56.6
21	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2014)	mg/l	2	9	3	5
22	Sulphate as SO ₄	IS 3025 (Part 24)-1986 (R.2014)	mg/l	18.2	45.9	29.8	29.4
23	Nitrate as NO ₃	IS 3025 (Part 34)-1988 (R.2014)	mg/l	0.18	0.46	0.38	0.43
24	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43)-1992 (R.2014)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
25	Cyanide as CN	IS 3025 (Part 27)-1986 (R.2014)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
26	Anionic detergent as MBAS	IS 13428-2005 (R.2014) (Annex K)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
27	Mineral oil	IS 3025 (Part 39)-1991 (R.2014)	mg/l	Absent	Absent	Absent	Absent
28	Dissolved Oxygen	4500-O-C-APHA 23rd Edn.2017	mg/l	6.7	6.9	6.5	6.8
29	Boron as B	IS 3025 (Part 57)-2005 (R.2017)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)
30	Silica as SiO ₂	IS 3025 (Part 35)-1988 (R.2014)	mg/l	45	21.7	31.9	6.07

For Chennai Testing Laboratory Pvt Ltd


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CIN : U74999TN2008PTC067568

TEST REPORT

S.NO	PARAMETERS	METHOD	UNITS	RESULTS			
31	Biochemical Oxygen Demand (BOD) 3 days @ 27°C	5210-B APHA 23rd Edn.2017	mg/l	< 2	< 2	< 2	< 2
32	Chemical Oxygen Demand (COD)	5220-B- APHA 23rd Edn.2017	mg/l	< 4	< 4	< 4	< 4
33	Salinity	2520-B-APHA 23rd Edn.2017	ppt	0.14	0.41	0.27	0.38
34	Copper as Cu	IS 3025 (Part 42)-1992 (R.2014)	mg/l	BDL(DL:0.02)	BDL (DL:0.02)	BDL (DL:0.02)	BDL(DL:0.02)
35	Manganese as Mn	3111-B-APHA 23rd Ed.2017	mg/l	0.02	BDL (DL:0.01)	BDL (DL:0.01)	BDL(DL:0.01)
36	Mercury as Hg	IS 3025 (Part 48)-1994 (R.2014)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
37	Cadmium as Cd	IS 3025 (Part 41)-1992 (R.2014)	mg/l	BDL(DL:0.002)	BDL(DL:0.002)	BDL(DL:0.002)	BDL(DL:0.002)
38	Selenium as Se	IS 3025 (Part 56)-2003(R.2014)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
39	Total Arsenic as As	IS 3025 (Part 37)-1988 (R.2014)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
40	Lead as Pb	IS 3025 (Part 47)-1994 (R.2014)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
41	Zinc as Zn	IS 3025 (Part 49)-1994 (R.2014)	mg/l	BDL(DL:0.08)	BDL(DL:0.08)	BDL(DL:0.08)	BDL(DL:0.08)
42	Total Chromium as Cr	IS 3025(Part 52)-2003 (R.2014)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
43	Nickel as Ni	IS 3025 (Part 54)-2003 (R.2014)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
44	Aluminium as Al	IS 3025 (Part 55)-2003 (R.2014)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Pesticide Residues							
Organo chlorine Pesticide(OCPs)							
45	Aldrin	CTL/SOP/WATER/101-2014	µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Dieldrin		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Endosulfan alpha		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Endosulfan Beta		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Endosulfan Sulfate		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	o,p'-DDT		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	p,p'-DDT		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	p,p'-DDE		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	o,p'-DDE		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	o,p'-DDD		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	p,p'-DDD		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Alpha HCH		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Beta HCH		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Gamma HCH (Lindane)		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Delta HCH	µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)		
Organo Phosphorus Pesticide(OPPs)							
46	Chlorpyrifos	CTL/SOP/WATER/101-2014	µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Ethion		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Malathion and its (Malaoxan)		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Monocrotophos		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Methyl Parathion and its (Paraoxan)		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Butachlor		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Alachlor		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
46	Total Coliform	IS 1622 : 1981 (R.2019)	MPN/100 ml	90	11	17	13

BDL - Below Detection Limit; DL - Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

A. Raju
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Annexure VI
Surface Water Test Reports

CIN : U74999TN2008PTC067568

TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.							
Project At		Fishing Harbour Project, Marakkanam, Tamilnadu							
Quantity Received	5 Litres Each	Sampled By			Chennai Testing Laboratory Pvt. Ltd.,				
Date of Receipt	19.10.2019	Sampling Method			CTL/QSP/09				
Analysis Starting Date	21.10.2019	Sample Condition			Good				
Analysis Completion Date	02.11.2019	Report Date			02.11.2019				
Report Number		CTL/CH/N-21355/19-20	CTL/CH/N-21357/19-20	CTL/CH/N-21358/19-20	CTL/CH/N-21359/19-20	CTL/CH/N-21360/19-20			
Sample Description		Surface Water-2	Surface Water-4	Surface Water-5	Surface Water-6	Surface Water-8			
Sampling location		Thazhuthalikuppam Village Road	Kadukalur Village	Chunambedu Village	Thangal Village	Karipalayam			
GPS Reading		12°18'50.209"N & 80°1'58.973"E	12°17'23.480"N & 79°56'37.691"E	12°15'20.482"N & 79°54'52.213"E	12°15'3.897"N & 79°56'11.638"E	12°11'36.186"N & 79°57'2.093"E			
Sampling Date		19.10.2019	18.10.2019	18.10.2019	18.10.2019	18.10.2019			
S.NO	PARAMETERS	METHOD	UNITS	RESULTS					
1	Colour	IS 3025 (Part 4)-1983 (R.2017)	HU	10	10	10	2	5	
2	Odour	IS 3025 (Part 5)-1983 (R.2017)	-	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	
3	Taste	IS 3025 (Part 8)-1984 (R.2017)	-	Disagreeable	Disagreeable	Disagreeable	Disagreeable	Disagreeable	
4	Turbidity	IS 3025 (Part 10)-1984 (R.2017)	NTU	32	22	14	2	11	
5	pH @ 25°C	IS 3025 (Part 11)-1983 (R.2017)	-	7.0	8.2	6.9	7.3	3	
6	Conductivity @ 25°C	IS 3025 (Part 14)-1984 (R.2013)	µs/cm	350	258	250	112610	3256	
7	Total Hardness as CaCO ₃	IS 3025 (Part 21)-2009 (R.2014)	mg/l	37	41	50	15100	1684	
8	Iron as Fe	IS 3025 (Part 53)-2003 (R.2014)	mg/l	1.86	4.6	8.84	7.6	8.52	
9	Chloride as Cl ⁻	IS 3025 (Part 32)-1988 (R.2014)	mg/l	91	9	29	37000	289	
10	Total Residual Chlorine	IS 3025 (Part 26)-1986 (R.2014)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	
11	Oil & Grease	5520-O&G-B APHA 23rd Edn.2017 (Partition Gravimetric Method)	mg/l	< 2	< 2	< 2	< 2	< 2	
12	Fluoride as F	IS 3025 (Part 60)-2008 (R.2013)	mg/l	0.13	0.14	0.15	1.43	0.24	
13	Total Dissolved Solids	IS 3025 (Part 16)-1984 (R.2017)	mg/l	240	160	148	66996	2430	
14	Total Suspended Solids	IS 3025 (Part 17)-1984 (R.2017)	mg/l	32	21	23	459	35	
15	P. Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2014)	mg/l	Nil	4	Nil	Nil	Nil	
16	M-Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2014)	mg/l	26	37	73	44	Nil	
17	Total Alkalinity as CaCO ₃	IS 3025 (Part 23)-1986 (R.2014)	mg/l	26	41	73	44	Nil	
18	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2014)	mg/l	6	8	15	500	316	
19	Sodium as Na	IS 3025 (Part 45)-1993 (R.2014)	mg/l	50.4	5.9	26.8	20055	138	
20	Potassium as K	IS 3025 (Part 45)-1993 (R.2014)	mg/l	6.1	4.3	7.8	765	22.6	
21	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2014)	mg/l	6	5	3	3400	218	
22	Sulphate as SO ₄	IS 3025 (Part 24)-1986 (R.2014)	mg/l	7.5	4.7	4.2	5205	1373	
23	Nitrate as NO ₃	IS 3025 (Part 34)-1988 (R.2014)	mg/l	0.29	0.16	0.34	9.8	1.1	
24	Phenolic Compounds as C ₆ H ₅ OH	IS 3025 (Part 43)-1992 (R.2014)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	
25	Cyanide as CN	IS 3025 (Part 27)-1986 (R.2014)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	
26	Anionic detergent as MBAS	IS 13428-2005 (R.2014) (Annex K)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	
27	Mineral oil	IS 3025 (Part 39)-1991 (R.2014)	mg/l	Absent	Absent	Absent	Absent	Absent	
28	Dissolved Oxygen	4500-O-C-APHA 23rd Edn.2017	mg/l	6.5	6.6	6.7	7.0	6.8	
29	Boron as B	IS 3025 (Part 57)-2005 (R.2017)	mg/l	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	BDL(DL:0.1)	
30	Silica as SiO ₂	IS 3025 (Part 35)-1988 (R.2014)	mg/l	49.3	83.9	5.14	1.09	57.6	

For Chennai Testing Laboratory Pvt Ltd

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CIN : U74999TN2008PTC067568

TEST REPORT

S.NO	PARAMETERS	METHOD	UNITS	RESULTS				
31	Biochemical Oxygen Demand (BOD) 3 days @ 27°C	5210-B APHA 23rd Edn.2017	mg/l	< 2	< 2	< 2	< 2	< 2
32	Chemical Oxygen Demand (COD)	5220-B- APHA 23rd Edn.2017	mg/l	< 4	< 4	< 4	< 4	< 4
33	Salinity	2520-B-APHA 23rd Edn.2017	ppt	0.24	0.16	0.14	66.9	2.43
34	Copper as Cu	IS 3025 (Part 42)-1992 (R.2014)	mg/l	BDL(DL:0.02)	BDL (DL:0.02)	BDL(DL:0.02)	1.14	0.28
35	Manganese as Mn	3111-B-APHA 23rd Ed.2017	mg/l	0.08	0.07	0.05	0.14	4.49
36	Mercury as Hg	IS 3025 (Part 48)-1994 (R.2014)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
37	Cadmium as Cd	IS 3025 (Part 41)-1992 (R.2014)	mg/l	BDL(DL:0.002)	BDL(DL:0.002)	BDL(DL:0.002)	BDL(DL:0.002)	BDL(DL:0.002)
38	Selenium as Se	IS 3025 (Part 56)-2003(R.2014)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
39	Total Arsenic as As	IS 3025 (Part 37)-1988 (R.2014)	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
40	Lead as Pb	IS 3025 (Part 47)-1994 (R.2014)	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	0.51	BDL(DL:0.005)
41	Zinc as Zn	IS 3025 (Part 49)-1994 (R.2014)	mg/l	BDL(DL:0.08)	BDL(DL:0.08)	BDL(DL:0.08)	0.11	BDL(DL:0.08)
42	Total Chromium as Cr	IS 3025(Part 52)-2003 (R.2014)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
43	Nickel as Ni	IS 3025 (Part 54)-2003 (R.2014)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
44	Aluminium as Al	IS 3025 (Part 55)-2003 (R.2014)	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Pesticide Residues								
Organo chlorine Pesticide(OCPs)								
45	Aldrin	CTL/SOP/WATER/101-2014	µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Dieldrin		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Endosulfan alpha		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Endosulfan Beta		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Endosulfan Sulfate		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	o,p'-DDT		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	p,p'-DDT		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	p,p'-DDE		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	o,p'-DDE		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	o,p'-DDD		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	p,p'-DDD		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Alpha HCH		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Beta HCH		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Gamma HCH (Lindane)		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
Delta HCH	µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)		
Organo Phosphorus Pesticide(OPPs)								
46	Chlorpyrifos	CTL/SOP/WATER/101-2014	µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Ethion		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Malathion and its (Malaoxan)		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Monocrotophos		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Methyl Parathion and its (Paraoxan)		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Butachlor		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
	Alachlor		µg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
46	Total Coliform	IS 1622 : 1981 (R.2019)	MPN/100 ml	170	90	110	21	50

BDL - Below Detection Limit; DL - Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

A. Raju
Authorised Signatory

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Annexure VII
Air Quality Test Reports

CIN : U74999TN2008PTC067568

TEST REPORT

CUSTOMER NAME & ADDRESS	M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.
SAMPLE DETAILS	
SAMPLE DESCRIPTION	Ambient air
PROJECT AT	Development of Fishing Harbour Project, Marakkanam
SAMPLING LOCATION	AAQ - 1 - Kadapakkam Project Site
SAMPLING METHOD	IS 5182 (Part V) and (Part XIV)
SAMPLED BY	Chennai Testing Laboratory Pvt. Ltd.,
SAMPLING COORDINATES	12°15'46.729"N 80°0'8.462"E

SL.NO	PARAMETERS	METHODS	UNITS	1		2		NAAQS*
				18.10.2019 to 19.10.2019	20.10.2019 to 21.10.2019	09.11.2019 to 10.11.2019	10.11.2019 to 11.11.2019	
1	PARTICULATE MATTER (PM _{2.5})	CTL/SOP/AIR/03 - 2016	µg/m ³	20.4	18.6	23.1	25.4	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006	µg/m ³	45.6	40.1	52.1	54.1	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001	µg/m ³	3.2	BDL(DL:3.0)	5.4	5.8	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006	µg/m ³	12.4	7.6	13.1	12.7	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	BDL(DL:5.0)	BDL(DL:5.0)	8.7	10.5	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004	µg/m ³	BDL(DL :0.1)	BDL(DL :0.1)	BDL(DL :0.1)	BDL(DL :0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	CTL/SOP/AIR/07- 2016 (INDOPHENOL METHOD)	µg/m ³	BDL(DL:5.0)	BDL(DL:5.0)	5.8	BDL(DL:5.0)	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	6
10	NICKEL (Ni)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	CTL/SOP/AIR/12 - 2016	µg/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004	ng/m ³	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	1

*National Ambient Air Quality Standards - CPCB
BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


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CIN : U74999TN2008PTC067568

TEST REPORT

CUSTOMER NAME & ADDRESS	M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.
SAMPLE DETAILS	
SAMPLE DESCRIPTION	Ambient air
PROJECT AT	Development of Fishing Harbour Project, Marakkanam
SAMPLING LOCATION	AAQ - 2 - Azhakan Kuppam Village
SAMPLING METHOD	IS 5182 (Part V) and (Part XIV)
SAMPLED BY	Chennai Testing Laboratory Pvt. Ltd.,
SAMPLING COORDINATES	12°14'25.632"N 79°59'47.645"E

SL.NO	PARAMETERS	METHODS	UNITS	1		2		NAAQS*
				18.10.2019 to 19.10.2019	20.10.2019 to 21.10.2019	09.11.2019 to 10.11.2019	10.11.2019 to 11.11.2019	
1	PARTICULATE MATTER (PM _{2.5})	CTL/SOP/AIR/03 - 2016	µg/m ³	10.2	12.7	20.7	21.1	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006	µg/m ³	32.5	36.5	42.1	44.7	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001	µg/m ³	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006	µg/m ³	4.6	5.8	7.8	9.7	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004	µg/m ³	BDL(DL :0.1)	BDL(DL :0.1)	BDL(DL :0.1)	BDL(DL :0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	CTL/SOP/AIR/07- 2016 (INDOPHENOL METHOD)	µg/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	6
10	NICKEL (Ni)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	CTL/SOP/AIR/12 - 2016	µg/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004	ng/m ³	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	1

*National Ambient Air Quality Standards - CPCB
BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory

Page 1 of 1

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CIN : U74999TN2008PTC067568

TEST REPORT

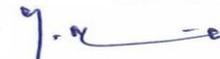
CUSTOMER NAME & ADDRESS	M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.
SAMPLE DETAILS	
SAMPLE DESCRIPTION	Ambient air
PROJECT AT	Development of Fishing Harbour Project, Marakkanam
SAMPLING LOCATION	AAQ - 3 - Vembanur Village
SAMPLING METHOD	IS 5182 (Part V) and (Part XIV)
SAMPLED BY	Chennai Testing Laboratory Pvt. Ltd.,
SAMPLING COORDINATES	12°16'0.736"N 79°59'8.197"E

SL.NO	PARAMETERS	METHODS	UNITS	1		2		NAAQS*
				18.10.2019 to 19.10.2019	20.10.2019 to 21.10.2019	09.11.2019 to 10.11.2019	10.11.2019 to 11.11.2019	
1	PARTICULATE MATTER (PM _{2.5})	CTL/SOP/AIR/03 - 2016	µg/m ³	10.1	12.8	13.7	15.1	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006	µg/m ³	28.7	30.4	33.5	35.8	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001	µg/m ³	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006	µg/m ³	3.5	3.8	5.6	6.7	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004	µg/m ³	BDL(DL :0.1)	BDL(DL :0.1)	BDL(DL :0.1)	BDL(DL :0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	CTL/SOP/AIR/07- 2016 (INDOPHENOL METHOD)	µg/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	6
10	NICKEL (Ni)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	CTL/SOP/AIR/12 - 2016	µg/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004	ng/m ³	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	1

*National Ambient Air Quality Standards - CPCB
BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


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Page 1 of 1

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CIN : U74999TN2008PTC067568

TEST REPORT

CUSTOMER NAME & ADDRESS	M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.
SAMPLE DETAILS	
SAMPLE DESCRIPTION	Ambient air
PROJECT AT	Development of Fishing Harbour Project, Marakkanam
SAMPLING LOCATION	AAQ - 4 - Kadapakkam Village
SAMPLING METHOD	IS 5182 (Part V) and (Part XIV)
SAMPLED BY	Chennai Testing Laboratory Pvt. Ltd.,
SAMPLING COORDINATES	12°17'28.631"N 79°59'46.926"E

SL.NO	PARAMETERS	METHODS	UNITS	1		2		NAAQS*
				19.10.2019 to 20.10.2019	20.10.2019 to 21.10.2019	07.11.2019 to 08.11.2019	08.11.2019 to 09.11.2019	
1	PARTICULATE MATTER (PM _{2.5})	CTL/SOP/AIR/03 - 2016	µg/m ³	19.4	16.2	23.4	24	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006	µg/m ³	42.5	38.7	50.2	53.4	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001	µg/m ³	3.8	BDL(DL:3.0)	5.1	5.8	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006	µg/m ³	9.6	5.6	11.2	12.7	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	BDL(DL:5.0)	BDL(DL:5.0)	6.5	8.5	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004	µg/m ³	BDL(DL :0.1)	BDL(DL :0.1)	BDL(DL :0.1)	BDL(DL :0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	CTL/SOP/AIR/07- 2016 (INDOPHENOL METHOD)	µg/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	6
10	NICKEL (Ni)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	CTL/SOP/AIR/12 - 2016	µg/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004	ng/m ³	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	1

*National Ambient Air Quality Standards - CPCB
BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


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Page 1 of 1

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CIN : U74999TN2008PTC067568

TEST REPORT

CUSTOMER NAME & ADDRESS	M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.
SAMPLE DETAILS	
SAMPLE DESCRIPTION	Ambient air
PROJECT AT	Development of Fishing Harbour Project, Marakkanam
SAMPLING LOCATION	AAQ - 5 - Thalangadu Village
SAMPLING METHOD	IS 5182 (Part V) and (Part XIV)
SAMPLED BY	Chennai Testing Laboratory Pvt. Ltd.,
SAMPLING COORDINATES	12°11'45.005"N 79°56'45.99"E

SL.NO	PARAMETERS	METHODS	UNITS	1		2		NAAQS*
				18.10.2019 to 19.10.2019	19.10.2019 to 20.10.2019	07.11.2019 to 08.11.2019	08.11.2019 to 09.11.2019	
1	PARTICULATE MATTER (PM _{2.5})	CTL/SOP/AIR/03 - 2016	µg/m ³	21.7	22.5	28.5	29.1	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006	µg/m ³	45.6	48.2	62.4	65.4	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001	µg/m ³	5.2	6.4	9.2	9.6	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006	µg/m ³	10.4	12.5	18.7	20.4	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	8.7	13.6	17.5	22.1	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004	µg/m ³	BDL(DL :0.1)	BDL(DL :0.1)	BDL(DL :0.1)	BDL(DL :0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	CTL/SOP/AIR/07- 2016 (INDOPHENOL METHOD)	µg/m ³	5.6	7.5	11.2	16.7	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	6
10	NICKEL (Ni)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	CTL/SOP/AIR/12 - 2016	µg/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004	ng/m ³	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	1

*National Ambient Air Quality Standards - CPCB
BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


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TEST REPORT

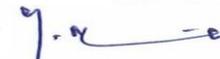
CUSTOMER NAME & ADDRESS	M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.
SAMPLE DETAILS	
SAMPLE DESCRIPTION	Ambient air
PROJECT AT	Development of Fishing Harbour Project, Marakkanam
SAMPLING LOCATION	AAQ - 6 - Thailangadu Village
SAMPLING METHOD	IS 5182 (Part V) and (Part XIV)
SAMPLED BY	Chennai Testing Laboratory Pvt. Ltd.,
SAMPLING COORDINATES	12°15'54.703"N 79°56'3.717"E

SL.NO	PARAMETERS	METHODS	UNITS	1		2		NAAQS*
				19.10.2019 to 20.10.2019	20.10.2019 to 21.10.2019	09.11.2019 to 10.11.2019	10.11.2019 to 11.11.2019	
1	PARTICULATE MATTER (PM _{2.5})	CTL/SOP/AIR/03 - 2016	µg/m ³	10.0	10.8	12.7	13.2	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006	µg/m ³	26.5	28.1	34.1	34.8	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001	µg/m ³	BDL(DL :3.0)	BDL(DL :3.0)	BDL(DL :3.0)	BDL(DL :3.0)	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006	µg/m ³	BDL(DL :3.0)	BDL(DL :3.0)	4.1	4.8	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004	µg/m ³	BDL(DL :0.1)	BDL(DL :0.1)	BDL(DL :0.1)	BDL(DL :0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	CTL/SOP/AIR/07- 2016 (INDOPHENOL METHOD)	µg/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	6
10	NICKEL (Ni)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	CTL/SOP/AIR/12 - 2016	µg/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004	ng/m ³	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	1

*National Ambient Air Quality Standards - CPCB
BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


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CIN : U74999TN2008PTC067568

TEST REPORT

CUSTOMER NAME & ADDRESS	M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.
SAMPLE DETAILS	
SAMPLE DESCRIPTION	Ambient air
PROJECT AT	Development of Fishing Harbour Project, Marakkanam
SAMPLING LOCATION	AAQ - 7 - Marakkanam Village
SAMPLING METHOD	IS 5182 (Part V) and (Part XIV)
SAMPLED BY	Chennai Testing Laboratory Pvt. Ltd.,
SAMPLING COORDINATES	12°11'55.412"N 79°57'6.784"E

SL.NO	PARAMETERS	METHODS	UNITS	1		2		NAAQS*
				18.10.2019 to 19.10.2019	19.10.2019 to 20.10.2019	07.11.2019 to 08.11.2019	08.11.2019 to 09.11.2019	
1	PARTICULATE MATTER (PM _{2.5})	CTL/SOP/AIR/03 - 2016	µg/m ³	24.2	22.4	26.1	27.5	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006	µg/m ³	50.1	48.5	58.4	60.1	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001	µg/m ³	7.5	6.2	7.8	9.2	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006	µg/m ³	14.2	13	16.5	18.5	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	10.2	9.2	15.7	17.1	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004	µg/m ³	BDL(DL :0.1)	BDL(DL :0.1)	BDL(DL :0.1)	BDL(DL :0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	CTL/SOP/AIR/07- 2016 (INDOPHENOL METHOD)	µg/m ³	6.2	BDL(DL:5.0)	7.8	10.2	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	6
10	NICKEL (Ni)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	CTL/SOP/AIR/12 - 2016	µg/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004	ng/m ³	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	1

*National Ambient Air Quality Standards - CPCB
BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


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Page 1 of 1

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CIN : U74999TN2008PTC067568

TEST REPORT

CUSTOMER NAME & ADDRESS	M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.
SAMPLE DETAILS	
SAMPLE DESCRIPTION	Ambient air
PROJECT AT	Development of Fishing Harbour Project, Marakkanam
SAMPLING LOCATION	AAQ - 8 - muthalayar kuppam Village
SAMPLING METHOD	IS 5182 (Part V) and (Part XIV)
SAMPLED BY	Chennai Testing Laboratory Pvt. Ltd.,
SAMPLING COORDINATES	12°19'12.361"N 80°01'38.549"E

SL.NO	PARAMETERS	METHODS	UNITS	1		2		NAAQS*
				19.10.2019 to 20.10.2019	21.10.2019 to 22.10.2019	08.11.2019 to 09.11.2019	09.11.2019 to 10.11.2019	
1	PARTICULATE MATTER (PM _{2.5})	CTL/SOP/AIR/03 - 2016	µg/m ³	24.8	23.1	30.2	32.4	60
2	PARTICULATE MATTER (PM ₁₀)	IS 5182 Part 23 - 2006	µg/m ³	55.1	52.1	64.8	68.5	100
3	SULPHUR DIOXIDE (SO ₂)	IS 5182 Part 2 - 2001	µg/m ³	6.8	5.5	10.7	12.6	80
4	OXIDES OF NITROGEN (NO ₂)	IS 5182 Part 6 - 2006	µg/m ³	13.5	11.2	23.4	28.7	80
5	OZONE (O ₃)	CTL/SOP/AIR/08 - 2016	µg/m ³	10.1	9.5	21.1	23.8	180
6	LEAD (Pb)	IS 5182 PART 22 - 2004	µg/m ³	BDL(DL :0.1)	BDL(DL :0.1)	BDL(DL :0.1)	BDL(DL :0.1)	1
7	CARBON MONOXIDE (CO)	CTL/SOP/AIR/23 - 2016	mg/m ³	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	BDL(DL:1.15)	4
8	AMMONIA (NH ₃)	CTL/SOP/AIR/07- 2016 (INDOPHENOL METHOD)	µg/m ³	7.8	9.1	14.5	18.6	400
9	ARSENIC (As)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	6
10	NICKEL (Ni)	CTL/SOP/AIR/06 - 2016	ng/m ³	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	20
11	BENZENE (C ₆ H ₆)	CTL/SOP/AIR/12 - 2016	µg/m ³	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	5
12	BENZO(a)PYRENE	IS 5182 PART 12 - 2004	ng/m ³	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	1

*National Ambient Air Quality Standards - CPCB
BDL - Below Detection Limit(D.L - Detection Limit)

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


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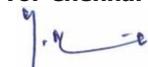
Annexure VIII
Noise Quality Test Reports

TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.		
SAMPLE DETAILS				
Project At		Development of Fishing Harbour Project, Marakkanam		
Sampling Location		N - 1 - Kadapakkam Project Site		
Sample Description		NOISE -AMBIENT		
Sampling Date		08.11.2019 to 09.11.2019		
Gps Reading		12°15'46.729"N 80°0'8.462"E		
SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)	
			Leq	Average Leq
Day TIME				
1	08.11.2019	8.55	49.5	42.4
2		9.55	48.9	
3		10.55	47.5	
4		11.55	49.1	
5		12.55	44.9	
6		13.55	46.2	
7		14.55	47.1	
8		15.55	45.0	
9		16.55	40.8	
10		17.55	39.8	
11		18.55	36.2	
12		19.55	38.1	
13		20.55	37.4	
14		21.55	33.9	
15	09.11.2019	6.55	35.7	
16		7.55	37.8	
NIGHT TIME				
15	08.11.2019	22.55	34.9	34.1
16		23.55	35.2	
17	09.11.2019	0.55	32.7	
18		1.55	38.5	
19		2.55	31.8	
20		3.55	34.9	
21		4.55	30.6	
22		5.55	33.8	

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd



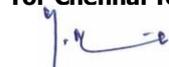
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TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.		
SAMPLE DETAILS				
Project At		Development of Fishing Harbour Project, Marakkanam		
Sampling Location		N - 2 - Azhakan Kuppam Village		
Sample Description		NOISE -AMBIENT		
Sampling Date		13.11.2019 to 14.11.2019		
Gps Reading		12°14'25.632"N 79°59'47.645"E		
SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)	
			Leq	Average Leq
Day TIME				
1	13.11.2019	12.35	51.9	40.2
2		13.35	48.7	
3		14.35	45.3	
4		15.45	47.2	
5		16.45	50.9	
6		17.45	43.2	
7		18.45	41.9	
8		19.45	38.9	
9		20.45	39.7	
10		21.45	35.4	
11	14.11.2019	6.45	30.9	33.1
12		7.45	33.8	
13		8.45	30.7	
14		9.45	32.4	
15		10.45	34.9	
16		11.45	37.9	
NIGHT TIME				
17	13.11.2019	22.45	33.4	33.1
18		23.45	30.9	
19	14.11.2019	0.45	31.8	
20		1.45	30.1	
21		2.45	33.9	
22		3.45	32.8	
23		4.45	34.6	
24		5.45	37.1	

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For Chennai Testing Laboratory Pvt Ltd



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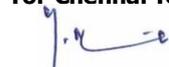
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TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.		
SAMPLE DETAILS				
Project At		Development of Fishing Harbour Project, Marakkanam		
Sampling Location		N - 3 - Vembanur Village		
Sample Description		NOISE - AMBIENT		
Sampling Date		12.11.2019 to 13.11.2019		
Gps Reading		12°16'0.736"N 79°59'8.197"E		
SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)	
			Leq	Average Leq
Day TIME				
1	12.11.2019	11.40	38.9	36.3
2		12.40	35.1	
3		13.40	36.5	
4		14.40	37.2	
5		15.40	36.5	
6		16.40	38.5	
7		17.40	37.2	
8		18.40	39.0	
9		19.40	35.6	
10		20.40	35.1	
11		21.40	34.6	
12	13.11.2019	6.40	35.6	32.1
13		7.40	33.6	
14		8.40	33.8	
15		9.40	34.8	
16		10.40	38.6	
NIGHT TIME				
17	12.11.2019	22.40	32.1	32.1
18		23.40	30.1	
19	13.11.2019	0.40	31.5	
20		1.40	32.2	
21		2.40	33.0	
22		3.40	34.0	
23		4.40	31.0	
24		5.40	32.5	

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd



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TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.		
SAMPLE DETAILS				
Project At		Development of Fishing Harbour Project, Marakkanam		
Sampling Location		N - 4 - Kadapakkam Village		
Sample Description		NOISE - AMBIENT		
Sampling Date		09.11.2019 to 10.11.2019		
Gps Reading		12°17'28.631"N 79°59'46.926"E		
SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)	
			Leq	Average Leq
Day TIME				
1	09.11.2019	7.55	47.5	47.9
2		8.55	48.1	
3		9.55	47.8	
4		10.55	53.5	
5		11.55	42.6	
6		12.55	51.1	
7		13.55	49.6	
8		14.55	56.8	
9		16.55	51.4	
10		17.55	52.6	
11		18.55	45.6	
12		19.55	46.1	
13		20.55	44.5	
14		21.55	43.5	
15	10.11.2019	6.55	42.8	
16		7.55	43.5	
NIGHT TIME				
17	09.11.2019	22.00	36.0	34.8
18		23.00	34.2	
19	10.11.2019	0.00	33.2	
20		1.00	35.0	
21		2.00	34.5	
22		3.00	35.1	
23		4.00	34.3	
24		5.00	35.8	

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TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.		
SAMPLE DETAILS				
Project At		Development of Fishing Harbour Project, Marakkanam		
Sampling Location		N - 5 - Thalangadu Village		
Sample Description		NOISE - AMBIENT		
Sampling Date		10.11.2019 to 11.11.2019		
Gps Reading		12°11'45.005"N 79°56'45.99"E		
SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)	
			Leq	Average Leq
Day TIME				
1	10.11.2019	9.15	54.8	53.8
2		10.10	56.5	
3		11.15	55.8	
4		12.15	55.1	
5		13.15	56.8	
6		14.15	52.1	
7		15.15	49.6	
8		16.15	55.1	
9		17.15	51.6	
10		18.15	56.7	
11		19.15	50.9	
12		20.15	53.8	
13		21.15	50.4	
14	11.11.2019	6.15	51.8	
15		7.15	53.7	
16		8.15	55.9	
NIGHT TIME				
17	10.11.2019	22.15	42.6	44.3
18		23.15	43.5	
19	11.11.2019	0.15	44.0	
20		1.15	43.8	
21		2.15	43.2	
22		3.15	45.4	
23		4.15	45.2	
24		5.15	46.3	

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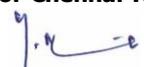

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TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.		
SAMPLE DETAILS				
Project At		Development of Fishing Harbour Project, Marakkanam		
Sampling Location		N - 6 - Thailangadu Village		
Sample Description		NOISE -AMBIENT		
Sampling Date		11.11.2019 to 12.11.2019		
Gps Reading		12°15'54.703"N 79°56'3.717"E		
SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)	
			Leq	Average Leq
Day TIME				
1	11.11.2019	10.25	44.9	38.6
2		11.25	46.9	
3		12.25	42.6	
4		13.25	39.8	
5		14.25	34.1	
6		15.25	39.8	
7		16.25	42.9	
8		17.25	44.5	
9		18.25	32.9	
10		19.25	30.9	
11		20.25	32.1	
12		21.25	30.5	
13	12.11.2019	6.25	38.1	33.3
14		7.25	37.5	
15		8.25	39.8	
16		9.25	40.5	
NIGHT TIME				
17	11.11.2019	22.25	30.9	33.3
18		23.25	31.8	
19	12.11.2019	0.25	32.8	
20		1.25	34.9	
21		2.25	33.5	
22		3.25	34.0	
23		4.25	33.0	
24		5.25	35.2	

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TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.		
SAMPLE DETAILS				
Project At		Development of Fishing Harbour Project, Marakkanam		
Sampling Location		N - 7 - Marakkanam Village		
Sample Description		NOISE - AMBIENT		
Sampling Date		06.11.2019 to 07.11.2019		
Gps Reading		12°11'55.412"N 79°57'6.784"E		
SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)	
			Leq	Average Leq
Day TIME				
1	06.11.2019	8.35	61.9	56.1
2		9.35	53.7	
3		10.35	66.8	
4		11.35	59.4	
5		12.32	57.3	
6		13.35	49.6	
7		14.35	57.6	
8		15.35	61.5	
9		16.35	58.9	
10		17.35	51.2	
11		18.35	54.7	
12		19.35	55.9	
13		20.35	49.9	
14		21.35	48.4	
15	07.11.2019	6.35	52.7	
16		7.35	57.6	
NIGHT TIME				
17	06.11.2019	22.35	47.3	48.4
18		23.35	49.1	
19	07.11.2019	0.35	46.9	
20		1.35	47.0	
21		2.35	48.1	
22		3.35	46.9	
23		4.35	49.5	
24		5.35	52.1	

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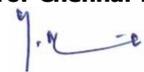

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TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.		
SAMPLE DETAILS				
Project At		Development of Fishing Harbour Project, Marakkanam		
Sampling Location		N - 8 - muthalayar kuppam Village		
Sample Description		NOISE - AMBIENT		
Sampling Date		07.11.2019 to 08.11.2019		
Gps Reading		12°19'12.361"N 80°01'38.549"E		
SL.NO	DATE	TIME	NOISE LEVEL VALUES Leq dB(A)	
			Leq	Average Leq
Day TIME				
1	07.11.2019	8.10	57.1	53.5
2		9.10	53.4	
3		10.10	59.1	
4		11.10	50.3	
5		12.10	53.7	
6		13.10	58.6	
7		14.10	61.7	
8		15.10	52.1	
9		16.10	49.7	
10		17.10	57.9	
11		18.10	47.9	
12		19.10	56.7	
13		20.10	47.9	
14		21.10	45.3	
15	08.11.2019	6.10	53.8	44.3
16		7.10	50.9	
NIGHT TIME				
17	07.11.2019	22.10	41.9	44.3
18		23.10	43.5	
19	08.11.2019	0.10	42.1	
20		1.10	43.8	
21		2.10	44.0	
22		3.10	45.6	
23		4.10	45.8	
24		5.10	47.5	

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


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Annexure IX
Marine Surface Water Quality Test Reports

CIN : U74999TN2008PTC067568

TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.					
Project At		Fishing Harbour Project, Marakkanam, Tamilnadu					
Quantity Received	1 Litre Each	Sampled By			Customer		
Date of Receipt	11.11.2019	Sample Condition			Good		
Analysis Starting Date	11.11.2019	Analysis Completion Date			19.11.2019		
Report Date		19.11.2019					
Report Number		CTL/CH/N-22552/19-20	CTL/CH/N-22553/19-20	CTL/CH/N-22554/19-20	CTL/CH/N-22555/19-20		
Sample Description		Surface Water-1	Surface Water-2	Surface Water-3	Surface Water-4		
S.NO	PARAMETERS	METHOD	UNITS	RESULTS			
1	Salinity	2520-B-APHA 23rd Edn.2017	ppt	29.1	29.4	25.0	24.1
2	Conductivity	2510-B-APHA 23rd Edn.2017	µs/cm	44156	42182	37480	35878
3	Temperature	2550-B-APHA 23rd Edn.2017	°C	28.1	27.6	28.4	28.0
4	Total Suspended Solids	2540-D-APHA 23rd Edn.2017	mg/l	20	16	8	6
5	pH @ 25°C	4500-H ⁺ -B-APHA 23rd Edn.2017	-	7.7	7.2	7.5	7.6
6	Dissolved Oxygen	4500-O-C-APHA 23rd Edn.2017	mg/l	6.1	6.3	6.5	6.6
7	Total Dissolved Solids	2540-C- APHA 23rd Edn.2017	mg/l	29106	29444	25016	24064
8	Biochemical Oxygen Demand (BOD) 3 days at 27°C	5210-B-APHA 23rd Edn.2017	mg/l	20	18	14	12
9	Chemical Oxygen Demand (COD)	5220-B- APHA 23rd Edn.2017	mg/l	168	156	124	110
10	Oil & Grease	5520-O&G-B APHA 23rd Edn.2017 (Partition Gravimetric Method)	mg/l	< 2	< 2	< 2	< 2
11	Nitrite as NO ₂	IS 3025 (Part 34)-1988 (R.2014)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
12	Nitrate as NO ₃	IS 3025 (Part 34)-1988 (R.2014)	µg/l	560	380	260	210
13	Phosphate as PO ₄	4500-P-D-APHA 23rd Edn.2017	µg/l	140	BDL(DL:100.0)	BDL(DL:100.0)	190
14	Silica as SiO ₂	IS 3025 (Part 35)-1988 (R.2014)	mg/l	5.90	7.70	4.20	11.0
15	Sodium as Na	IS 3025 (Part 45)-1993 (R.2014)	mg/l	8822	8600	7534	7172
16	Potassium as K	IS 3025 (Part 45)-1993 (R.2014)	mg/l	310	298	272	256
17	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2014)	mg/l	1179	1203	1031	982
18	Iron as Fe	IS 3025 (Part 53)-2003 (R.2014)	mg/l	0.54	0.25	0.23	0.06
19	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2014)	mg/l	283	243	243	243
20	Copper as Cu	3111-B-APHA 23rd Edn.2017	mg/l	0.05	0.06	0.04	0.04
21	Lead as Pb	3111-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)

For Chennai Testing Laboratory Pvt Ltd

A. Raju

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Page 1 of 2

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CIN : U74999TN2008PTC067568

TEST REPORT

S.NO	PARAMETERS	METHOD	UNITS	RESULTS				
22	Mercury as Hg	3112-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	
23	Zinc as Zn	3111-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.08)	BDL(DL:0.08)	BDL(DL:0.08)	BDL(DL:0.08)	
24	Manganese as Mn	3111-B-APHA 23rd Edn.2017	mg/l	0.08	0.13	0.09	0.14	
25	Arsenic as As	3114-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	
26	Cadmium as Cd	3111-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.002)	BDL(DL:0.002)	BDL(DL:0.002)	BDL(DL:0.002)	
27	Total Chromium as Cr	3114-D-APHA 23rd Edn.2017	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	
28	Barium as Ba	3111-D-APHA 23rd Edn.2017	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	
29	Petroleum Hydrocarbons:							
	Decane	CTL/SOP/WATER/102-2012	µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Docosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Dodecane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Dotriacontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Eicosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Hexacosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Hexadecane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Hexatriacontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Octacosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Octadecane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Octane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Octatriacontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Tetracontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Tetracosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Tetradecane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
Tetratriacontane	µg/l		BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)		
Triacontane	µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)			
30	Total Coliform	IS 15185:2016	Per 100ml	Absent	Absent	Absent	Absent	
31	<i>E.coli</i>		Per 100ml	Absent	Absent	Absent	Absent	
32	Total Viable Count	IS 5402:2012 (RA.2018)	CFU/ml	140	210	160	90	

BDL - Below Detection Limit; DL - Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

A. Raju
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TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited,					
		'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.					
Project At		Fishing Harbour Project, Marakkanam, Tamilnadu					
Quantity Received	1 Litre Each	Sampled By			Customer		
Date of Receipt	11.11.2019	Sample Condition			Good		
Analysis Starting Date	11.11.2019	Analysis Completion Date			19.11.2019		
Report Date		19.11.2019					
Report Number		CTL/CH/N-22556/19-20	CTL/CH/N-22557/19-20	CTL/CH/N-22558/19-20	CTL/CH/N-22559/19-20		
Sample Description		Surface Water-5	Surface Water-6	Surface Water-7	Surface Water-8		
S.NO	PARAMETERS	METHOD	UNITS	RESULTS			
1	Salinity	2520-B-APHA 23rd Edn.2017	ppt	20.4	32.4	32.6	32.1
2	Conductivity	2510-B-APHA 23rd Edn.2017	µs/cm	30392	47116	47458	46936
3	Temperature	2550-B-APHA 23rd Edn.2017	°C	28.3	27.4	27.7	28.2
4	Total Suspended Solids	2540-D-APHA 23rd Edn.2017	mg/l	21	4	6	10
5	pH @ 25°C	4500-H ⁺ -B-APHA 23rd Edn.2017	-	7.7	7.9	7.9	8.0
6	Dissolved Oxygen	4500-O-C-APHA 23rd Edn.2017	mg/l	6.5	6.1	6.3	6.3
7	Total Dissolved Solids	2540-C- APHA 23rd Edn.2017	mg/l	20412	32488	32644	32072
8	Biochemical Oxygen Demand (BOD) 3 days at 27°C	5210-B-APHA 23rd Edn.2017	mg/l	10	22	20	16
9	Chemical Oxygen Demand (COD)	5220-B- APHA 23rd Edn.2017	mg/l	96	178	170	154
10	Oil & Grease	5520-O&G-B APHA 23rd Edn.2017 (Partition Gravimetric Method)	mg/l	< 2	< 2	< 2	< 2
11	Nitrite as NO ₂	IS 3025 (Part 34)-1988 (R.2014)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
12	Nitrate as NO ₃	IS 3025 (Part 34)-1988 (R.2014)	µg/l	BDL(DL:100.0)	640	710	580
13	Phosphate as PO ₄	4500-P-D-APHA 23rd Edn.2017	µg/l	120	280	BDL(DL:100.0)	140
14	Silica as SiO ₂	IS 3025 (Part 35)-1988 (R.2014)	mg/l	5.40	0.17	2.20	0.10
15	Sodium as Na	IS 3025 (Part 45)-1993 (R.2014)	mg/l	5840	9694	9720	9672
16	Potassium as K	IS 3025 (Part 45)-1993 (R.2014)	mg/l	210	322	326	324
17	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2014)	mg/l	908	1179	1129	1252
18	Iron as Fe	IS 3025 (Part 53)-2003 (R.2014)	mg/l	1.06	0.05	BDL(DL:0.01)	BDL(DL:0.01)
19	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2014)	mg/l	202	324	364	324
20	Copper as Cu	3111-B-APHA 23rd Edn.2017	mg/l	0.05	0.04	0.05	0.04
21	Lead as Pb	3111-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)

For Chennai Testing Laboratory Pvt Ltd

A. Raju

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TEST REPORT

S.NO	PARAMETERS	METHOD	UNITS	RESULTS			
22	Mercury as Hg	3112-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
23	Zinc as Zn	3111-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.08)	BDL(DL:0.08)	BDL(DL:0.08)	BDL(DL:0.08)
24	Manganese as Mn	3111-B-APHA 23rd Edn.2017	mg/l	0.15	0.08	0.09	0.07
25	Arsenic as As	3114-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
26	Cadmium as Cd	3111-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.002)	BDL(DL:0.002)	BDL(DL:0.002)	BDL(DL:0.002)
27	Total Chromium as Cr	3114-D-APHA 23rd Edn.2017	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
28	Barium as Ba	3111-D-APHA 23rd Edn.2017	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)
Petroleum Hydrocarbons:							
29	Decane	CTL/SOP/WATER/102-2012	µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
	Docosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
	Dodecane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
	Dotriacontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
	Eicosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
	Hexacosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
	Hexadecane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
	Hexatriacontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
	Octacosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
	Octadecane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
	Octane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
	Octatriacontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
	Tetracontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
	Tetracosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
	Tetradecane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
	Tetratriacontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
Triacontane	µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)		
30	Total Coliform	IS 15185:2016	Per 100ml	Absent	Absent	Absent	Absent
31	<i>E.coli</i>		Per 100ml	Absent	Absent	Absent	Absent
32	Total Viable Count	IS 5402:2012 (RA.2018)	CFU/ml	130	150	80	40

BDL - Below Detection Limit; DL - Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

A. Raj
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Annexure X
Marine Bottom Water Quality Test Reports

CIN : U74999TN2008PTC067568

TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited,					
		'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.					
Project At		Fishing Harbour Project, Marakkanam, Tamilnadu					
Quantity Received	1 Litre Each	Sampled By			Customer		
Date of Receipt	11.11.2019	Sample Condition			Good		
Analysis Starting Date	11.11.2019	Analysis Completion Date			19.11.2019		
Report Date		19.11.2019					
Report Number		CTL/CH/N-22560/19-20	CTL/CH/N-22561/19-20	CTL/CH/N-22562/19-20	CTL/CH/N-22563/19-20		
Sample Description		Bottom Water-1	Bottom Water-2	Bottom Water-3	Bottom Water-4		
S.NO	PARAMETERS	METHOD	UNITS	RESULTS			
1	Salinity	2520-B-APHA 23rd Edn.2017	ppt	29.6	29.8	26.2	30.6
2	Conductivity	2510-B-APHA 23rd Edn.2017	µs/cm	43157	43372	37674	44286
3	Temperature	2550-B-APHA 23rd Edn.2017	°C	27.8	28.1	28.6	27.6
4	Total Suspended Solids	2540-D-APHA 23rd Edn.2017	mg/l	466	17	14	23
5	pH @ 25°C	4500-H ⁺ -B-APHA 23rd Edn.2017	-	7.1	6.9	7.4	6.9
6	Dissolved Oxygen	4500-O-C-APHA 23rd Edn.2017	mg/l	6.4	6.1	6.6	6.0
7	Total Dissolved Solids	2540-C- APHA 23rd Edn.2017	mg/l	29574	29826	26208	30628
8	Biochemical Oxygen Demand (BOD) 3 days at 27°C	5210-B-APHA 23rd Edn.2017	mg/l	14	18	14	20
9	Chemical Oxygen Demand (COD)	5220-B- APHA 23rd Edn.2017	mg/l	138	164	128	172
10	Oil & Grease	5520-O&G-B APHA 23rd Edn.2017 (Partition Gravimetric Method)	mg/l	< 2	< 2	< 2	< 2
11	Nitrite as NO ₂	IS 3025 (Part 34)-1988 (R.2014)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	0.08
12	Nitrate as NO ₃	IS 3025 (Part 34)-1988 (R.2014)	µg/l	440	490	180	570
13	Phosphate as PO ₄	4500-P-D-APHA 23rd Edn.2017	µg/l	230	180	BDL(DL:100.0)	260
14	Silica as SiO ₂	IS 3025 (Part 35)-1988 (R.2014)	mg/l	6.8	10.2	5.4	4.8
15	Sodium as Na	IS 3025 (Part 45)-1993 (R.2014)	mg/l	8958	9168	8078	9668
16	Potassium as K	IS 3025 (Part 45)-1993 (R.2014)	mg/l	306	310	272	314
17	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2014)	mg/l	1203	1203	1080	1154
18	Iron as Fe	IS 3025 (Part 53)-2003 (R.2014)	mg/l	6.4	0.66	0.55	1.43
19	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2014)	mg/l	283	243	283	364
20	Copper as Cu	3111-B-APHA 23rd Edn.2017	mg/l	0.07	0.05	0.04	0.05
21	Lead as Pb	3111-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)

For Chennai Testing Laboratory Pvt Ltd

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CIN : U74999TN2008PTC067568

TEST REPORT

S.NO	PARAMETERS	METHOD	UNITS	RESULTS				
22	Mercury as Hg	3112-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	
23	Zinc as Zn	3111-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.08)	BDL(DL:0.08)	BDL(DL:0.08)	BDL(DL:0.08)	
24	Manganese as Mn	3111-B-APHA 23rd Edn.2017	mg/l	0.20	0.10	0.09	0.09	
25	Arsenic as As	3114-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	
26	Cadmium as Cd	3111-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.002)	BDL(DL:0.002)	BDL(DL:0.002)	BDL(DL:0.002)	
27	Total Chromium as Cr	3114-D-APHA 23rd Edn.2017	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	
28	Barium as Ba	3111-D-APHA 23rd Edn.2017	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	
29	Petroleum Hydrocarbons:							
	Decane	CTL/SOP/WATER/102-2012	µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Docosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Dodecane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Dotriacontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Eicosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Hexacosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Hexadecane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Hexatriacontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Octacosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Octadecane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Octane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Octatriacontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Tetracontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Tetracosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Tetradecane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
Tetratriacontane	µg/l		BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)		
Triaccontane	µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)			
30	Total Coliform	IS 15185:2016	Per 100ml	Absent	Absent	Absent	Absent	
31	<i>E.coli</i>		Per 100ml	Absent	Absent	Absent	Absent	
32	Total Viable Count	IS 5402:2012 (RA.2018)	CFU/ml	90	80	90	100	

BDL - Below Detection Limit; DL - Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

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CIN : U74999TN2008PTC067568

TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.					
Project At		Fishing Harbour Project, Marakkanam, Tamilnadu					
Quantity Received	1 Litre Each	Sampled By			Customer		
Date of Receipt	11.11.2019	Sample Condition			Good		
Analysis Starting Date	11.11.2019	Analysis Completion Date			19.11.2019		
Report Date		19.11.2019					
Report Number		CTL/CH/N- 22564/19-20	CTL/CH/N- 22565/19-20	CTL/CH/N- 22566/19-20	CTL/CH/N- 22567/19-20		
Sample Description		Bottom Water-5	Bottom Water-6	Bottom Water-7	Bottom Water-8		
S.NO	PARAMETERS	METHOD	UNITS	RESULTS			
1	Salinity	2520-B-APHA 23rd Edn.2017	ppt	23.4	32.5	33.4	32.6
2	Conductivity	2510-B-APHA 23rd Edn.2017	µs/cm	32192	45639	46702	45868
3	Temperature	2550-B-APHA 23rd Edn.2017	°C	28.1	28.4	27.8	28.2
4	Total Suspended Solids	2540-D-APHA 23rd Edn.2017	mg/l	12	4	8	21
5	pH @ 25°C	4500-H ⁺ -B-APHA 23rd Edn.2017	-	7.6	7.6	7.4	7.9
6	Dissolved Oxygen	4500-O-C-APHA 23rd Edn.2017	mg/l	6.6	6.4	6.0	6.2
7	Total Dissolved Solids	2540-C- APHA 23rd Edn.2017	mg/l	23368	32528	33490	32684
8	Biochemical Oxygen Demand (BOD) 3 days at 27°C	5210-B-APHA 23rd Edn.2017	mg/l	10	18	22	20
9	Chemical Oxygen Demand (COD)	5220-B- APHA 23rd Edn.2017	mg/l	102	166	180	174
10	Oil & Grease	5520-O&G-B APHA 23rd Edn.2017 (Partition Gravimetric Method)	mg/l	< 2	< 2	< 2	< 2
11	Nitrite as NO ₂	IS 3025 (Part 34)-1988 (R.2014)	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)
12	Nitrate as NO ₃	IS 3025 (Part 34)-1988 (R.2014)	µg/l	150	620	770	700
13	Phosphate as PO ₄	4500-P-D-APHA 23rd Edn.2017	µg/l	BDL(DL:100.0)	230	290	210
14	Silica as SiO ₂	IS 3025 (Part 35)-1988 (R.2014)	mg/l	3.9	0.2	0.4	0.7
15	Sodium as Na	IS 3025 (Part 45)-1993 (R.2014)	mg/l	6390	9824	9972	9868
16	Potassium as K	IS 3025 (Part 45)-1993 (R.2014)	mg/l	214	344	340	338
17	Magnesium as Mg	IS 3025 (Part 46)-1994 (R.2014)	mg/l	835	1203	1203	1154
18	Iron as Fe	IS 3025 (Part 53)-2003 (R.2014)	mg/l	0.62	0.11	0.82	0.46
19	Calcium as Ca	IS 3025 (Part 40)-1991 (R.2014)	mg/l	202	364	364	364
20	Copper as Cu	3111-B-APHA 23rd Edn.2017	mg/l	0.04	0.05	0.04	0.06
21	Lead as Pb	3111-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)

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CIN : U74999TN2008PTC067568

TEST REPORT

S.NO	PARAMETERS	METHOD	UNITS	RESULTS				
22	Mercury as Hg	3112-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	
23	Zinc as Zn	3111-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.08)	BDL(DL:0.08)	BDL(DL:0.08)	BDL(DL:0.08)	
24	Manganese as Mn	3111-B-APHA 23rd Edn.2017	mg/l	0.10	0.11	0.08	0.16	
25	Arsenic as As	3114-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	
26	Cadmium as Cd	3111-B-APHA 23rd Edn.2017	mg/l	BDL(DL:0.002)	BDL(DL:0.002)	BDL(DL:0.002)	BDL(DL:0.002)	
27	Total Chromium as Cr	3114-D-APHA 23rd Edn.2017	mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	
28	Barium as Ba	3111-D-APHA 23rd Edn.2017	mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	
29	Petroleum Hydrocarbons:							
	Decane	CTL/SOP/WATER/102-2012	µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Docosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Dodecane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Dotriacontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Eicosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Hexacosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Hexadecane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Hexatriacontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Octacosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Octadecane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Octane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Octatriacontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Tetracontane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Tetracosane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
	Tetradecane		µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	
Tetratriacontane	µg/l		BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)		
Triaccontane	µg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)			
30	Total Coliform	IS 15185:2016	Per 100ml	Absent	Absent	Absent	Absent	
31	<i>E.coli</i>		Per 100ml	Absent	Absent	Absent	Absent	
32	Total Viable Count	IS 5402:2012 (RA.2018)	CFU/ml	50	70	60	30	

BDL - Below Detection Limit; DL - Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

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Annexure XI
Marine Sediment Quality Test Reports

CIN : U74999TN2008PTC067568

TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.					
Project At		Fishing Harbour Project, Marakkanam, Tamilnadu					
Quantity Received	1 Kg Each	Sampled By		Customer			
Date of Receipt	11.11.2019	Sample Condition		Good			
Analysis Starting Date	11.11.2019	Analysis Completion Date		19.11.2019			
Report Date		19.11.2019					
Report Number		CTL/CH/N-22568/19-20	CTL/CH/N-22569/19-20	CTL/CH/N-22570/19-20	CTL/CH/N-22571/19-20		
Sample Description		Sediment - 1	Sediment - 2	Sediment - 3	Sediment - 4		
S.NO	PARAMETERS	METHOD	UNITS	RESULTS			
1	Texture:						
	Sand	FAO Method (Page No.25) 2007	%	13.83	12.14	71.36	10.68
	Silt		%	7.00	11.50	16.63	6.05
Clay	%		79.17	76.36	12.01	83.27	
2	pH	EPA Method-9045 D Rev 4; 2004	-	8.0	7.6	8.5	8.2
3	Total Organic Carbon	FAO Method (Pg. No.61) 2007 (walkley Black wet combustion method)	%	3.24	1.78	1.65	1.52
4	Calcium Carbonate as CaCO ₃	IS 2720 (Part 23) : 1976	%	2.9	9.2	11.8	9.4
5	Organic Nitrogen	IS 10158-1982 (RA.2003)	%	0.76	0.66	0.78	0.84
6	Oil & Grease	EPA Method-9071B	mg/kg	< 10	< 10	< 10	< 10
7	Copper as Cu	EPA 3050B-1996 (Rev-2)/EPA 7210-1986	mg/kg	3.19	3.50	BDL(DL:3.0)	BDL(DL:3.0)
8	Zinc as Zn	EPA 3050B-1996 (Rev-2)/EPA 7950-1986	mg/kg	24.05	32.16	14.19	19.59
9	Iron as Fe	EPA 3050B-1996 (Rev-2)/EPA 7380-1986	%	0.39	0.55	0.39	0.42
10	Lead as Pb	EPA 3050B-1996 (Rev-2)/EPA 7420-1986	mg/kg	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)
11	Cadmium as Cd	EPA 3050B-1996 (Rev-2)/EPA 7130-1986	mg/kg	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)
12	Manganese as Mn	EPA 3050B-1996 (Rev-2)/EPA 7460-1986	mg/kg	136.37	78.11	153.15	192.74
13	Mercury as Hg	EPA 7471A-2007 (Rev-2)	mg/kg	BDL(DL:0.2)	BDL(DL:0.2)	BDL(DL:0.2)	BDL(DL:0.2)
14	Total Chromium as Cr	EPA 3050B-1996 (Rev-2)/EPA 7190-1986	mg/kg	32.30	18.14	27.62	30.18
15	Arsenic as As	EPA 3050B-1996 (Rev-2)/EPA 7061A-1992(Rev 1)	mg/kg	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)
16	Barium as Ba	CTL/SOP/SOIL/122	mg/kg	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)
17	Petroleum Hydrocarbons:						
	Decane	CTL/SOP/SOIL/124-2014	mg/kg	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Docosane		mg/kg	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Dodecane		mg/kg	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Dotriacontane		mg/kg	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Eicosane		mg/kg	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Hexacosane		mg/kg	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Hexadecane		mg/kg	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Hexatriacontane		mg/kg	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Octacosane		mg/kg	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Octadecane		mg/kg	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Octane		mg/kg	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Octatriacontane		mg/kg	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Tetracontane		mg/kg	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Tetracosane		mg/kg	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Tetradecane		mg/kg	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Tetratriacontane		mg/kg	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
Triacotane	mg/kg		BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	

BDL - Below Detection Limit; DL - Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd

A. Raju
Authorised Signatory

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CIN : U74999TN2008PTC067568

TEST REPORT

Customer Name & Address		M/s. Cholamandalam MS Risk Services Limited, 'Parry House', 3rd Floor, No:2 NSC Bose Road, Chennai - 600 001.					
Project At		Fishing Harbour Project, Marakkanam, Tamilnadu					
Quantity Received	1 Kg Each	Sampled By			Customer		
Date of Receipt	11.11.2019	Sample Condition			Good		
Analysis Starting Date	11.11.2019	Analysis Completion Date			19.11.2019		
Report Date		19.11.2019					
Report Number		CTL/CH/N-22572/19-20	CTL/CH/N-22573/19-20	CTL/CH/N-22574/19-20	CTL/CH/N-22575/19-20		
Sample Description		Sediment - 5	Sediment - 6	Sediment - 7	Sediment - 8		
S.NO	PARAMETERS	METHOD	UNITS	RESULTS			
1	Texture:	FAO Method (Page No.25) 2007	%				
	Sand			17.25	58.87	18.75	69.94
	Silt			11.10	25.24	12.42	15.17
	Clay		71.65	15.89	68.83	14.89	
2	pH	EPA Method-9045 D Rev 4; 2004	-	8.3	7.7	8.3	8.2
3	Total Organic Carbon	FAO Method (Pg. No.61) 2007 (walkley Black wet combustion method)	%	2.40	0.76	1.46	1.74
4	Calcium Carbonate as CaCO ₃	IS 2720 (Part 23) : 1976	%	7.4	3.2	4.0	6.5
5	Organic Nitrogen	IS 10158-1982 (RA.2003)	%	0.68	0.38	0.52	0.86
6	Oil & Grease	EPA Method-9071B	mg/kg	< 10	< 10	< 10	< 10
7	Copper as Cu	EPA 3050B-1996 (Rev-2)/EPA 7210-1986	mg/kg	3.58	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)
8	Zinc as Zn	EPA 3050B-1996 (Rev-2)/EPA 7950-1986	mg/kg	27.88	27.35	24.69	22.34
9	Iron as Fe	EPA 3050B-1996 (Rev-2)/EPA 7380-1986	%	0.37	0.49	0.48	0.45
10	Lead as Pb	EPA 3050B-1996 (Rev-2)/EPA 7420-1986	mg/kg	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)
11	Cadmium as Cd	EPA 3050B-1996 (Rev-2)/EPA 7130-1986	mg/kg	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)	BDL(DL:2.0)
12	Manganese as Mn	EPA 3050B-1996 (Rev-2)/EPA 7460-1986	mg/kg	155.53	68.80	70.82	64.04
13	Mercury as Hg	EPA 7471A-2007 (Rev-2)	mg/kg	BDL(DL:0.2)	BDL(DL:0.2)	BDL(DL:0.2)	BDL(DL:0.2)
14	Total Chromium as Cr	EPA 3050B-1996 (Rev-2)/EPA 7190-1986	mg/kg	37.43	BDL(DL:5.0)	BDL(DL:5.0)	BDL(DL:5.0)
15	Arsenic as As	EPA 3050B-1996 (Rev-2)/EPA 7061A-1992(Rev 1)	mg/kg	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)
16	Barium as Ba	CTL/SOP/SOIL/122	mg/kg	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)	BDL(DL:0.5)
17	Petroleum Hydrocarbons:	CTL/SOP/SOIL/124-2014	mg/kg				
	Decane			BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Docosane			BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Dodecane			BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Dotriacontane			BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Eicosane			BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Hexacosane			BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Hexadecane			BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Hexatriacontane			BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Octacosane			BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Octadecane			BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Octane			BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Octatriacontane			BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Tetracontane			BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Tetracosane			BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Tetradecane			BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
	Tetraatriacontane			BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
Triacontane	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)			

BDL - Below Detection Limit; DL - Detection Limit

END OF REPORT

For Chennai Testing Laboratory Pvt Ltd


Authorised Signatory

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