



#### CYCLONE MICHAUNG 05/12/2023 | Severe Cyclonic Storm

RMSI has been tracking the formation and the progress of Cyclone Michaung since 28<sup>th</sup> November 2023. In our last advisory dated 4<sup>th</sup> December 2023, we mentioned that severe cyclonic storm Michaung was moving towards the coast of Andhra Pradesh at a speed of 10 kmph. As per the IMD Bulletin issued on 5<sup>th</sup> December, 2023 at 1000 hrs. IST, Michaung has moved northwards from South Andhra Pradesh Coast with a speed of 12 kmph. It has made landfall close to Bapatla as a severe cyclonic storm with a maximum sustained wind speed 90-100 kmph.

The Figure 1 depicts the observed and the forecast cyclonic track with expected maximum sustained wind speeds. The Figure 2 depicts the "cone of uncertainty" for the cyclonic storm. The "cone of uncertainty" is a graphical representation to illustrate the potential path of a tropical cyclone. It depicts the probable track that the center of the storm might follow over a specific period.



Figure 1: Observed and forecasted Track along with modelled wind speed

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The Figure 3 and 4 depicts flooding Chennai and Vijayawada.



Figure 3: Expected flooding by Cyclone Michaung in Chennai

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transportation, with disruptions causing significant challenges to the commuters.

Meanwhile, heavy rainfall over the past few days combined with water logging has left several areas in Chennai submerged and grappling with severe waterlogging. Several locations have witnessed inundation, some of these are shown as below:

### RMSI LOODING IN VIJAYWADA DISTRICT 05 DEC 2023 Singh/Naga Bhavanipuran FLOOD BUILLETIN BASED MODEL Vidvaquara Krishna awNirmala Convent Road Suntu eaend Flood Affected Area Flood Depth High Medium Low

Figure 4: Estimated Flooding by Cyclone Michaung in Vijayawada

#### **RMSI'S IMPACT ANALYSIS**

**RMSI's Impact Forecasting tool** has conducted a comprehensive analysis, shedding light on the widespread consequences of the cyclone in both Andhra Pradesh and Tamil Nadu. Predominantly, the agricultural sector emerges as the hardest-hit in both states, bearing the brunt of the cyclonic impact. In Andhra Pradesh, the most severely affected sector after agriculture is

#### Table 1: Major locations in Chennai with expected flood depth

City	Location of Flood	Flood Depth
ennai	Royapettah	0.5-1m
	Azeez Nagar	0.5-1m
	West Mambalam	0.5-1m
	Velachery	0.5-1m
	Pallikaranai	0.5-1m
	Vadapalani	0.5-1m
	Arumbakkam	0.5-1m
	Sholinganallur WIPRO	0.5-1m
	Airport	1-1.5 m
	Egmore Railway Station	1-1.5 m
	Chennai Road(ONGC colony)	0.5-1m
	Nerukundram	1-1.5 m
	Maduravoyal	0.5-1m
	Ashok Nagar	1-1.5 m
	Pammal Area	1-1.5 m
	Sasivardhan Nagar	0.5-1m
	Kodambakkam	0.5-1m
	Choolaimedu	1-1.5 m
	Aminjikari	1-1.5 m

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City	Location of Flood	Flood Depth
	Perungudi	1-1.5 m
	CTO Colony, Chennai	0.5-1m
Vijaywada	Nirmala Convent Road	1-1.5 m
	Mughalrajapuram	0.5-1m
	Eenadu	1-1.5 m
	Panta Kalava	0.5-1m
	Chuttugunta	0.5-1m
	Krishna Lanka	1-1.5 m
	Bhavanipuram	1-1.5 m
	Benz Circle	0.5-1m

Yesterday streets in Chennai resembled waterways as cars were being swept away. The Chennai Airport witnessed extreme rainfall and water logging on runway resulting in cancellation of flights. The situation has improved today with the airport resuming partial operations during the day.

The aftermath paints a grim picture, with a flood-like situation persisting in West Tambaram, CTO colony and Sasivaradhan Nagar area, compelling residents to resort to boat transportation amidst the ongoing challenges.

#### **RMSI'S ECONOMIC IMPACT ANALYSIS**

RMSI conducted an economic impact analysis on different sectors within the affected regions and it is expected the loss of the event, as of today is **INR 4,400 crore.** The increase in estimated economic loss from yesterday is mainly due to flooding in Andhra Pradesh. In Tamil Nadu, Chennai had experienced peak flooding yesterday and is slowly witnessing receding water levels. The sector wise impact is as under:





#### **PIN CODE ANALYSIS**

The following section analysis the Pincode wise impact of cyclonic winds in in Andhra Pradesh and Tamil Nadu. It is expected that cyclonic winds will impact around 950+ Pin Codes in 'Low' Category, 350 pin Codes in 'Medium' category and 6 Pincodes in 'High' category in Andhra Pradesh and Tamil Nadu collectively.

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Figure 6: Pincodes likely to be impacted by floods due to Cyclone Michaung

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The table below indicates Pin Codes likely to be impacted in Low, Medium and high category

Cyclone Advisory

#### Table 2: 'Low' , 'Medium' and 'high' intensity wise likely impact on Pincodes by Cyclonic Storm

State	Low	Medium	High	
Name			8	
Andhra	508238; 515154; 515408;	517541; 517588; 517642;	522101;	
Pradesh	515411; 515413; 515414;	517645; 517646; 520001;	522111;	
	515415; 515445; 515465;	520002; 520004; 520007;	522262;	
	515501; 515511; 515521;	520010; 520012; 520013;	522264;	
	515541; 515551; 515556;	520015; 521001; 521002;	522314;	
	515571; 515581; 515591;	521003; 521004; 521101;	522329	
	516001; 516002; 516003;	521102; 521104; 521106;		
	516004; 516005; 516101;	521107; 521109; 521110;		
	516104; 516105; 516107;	521111; 521120; 521121;		
	516108; 516110; 516115;	521122; 521125; 521126;		
	516126; 516127; 516128;	521130; 521131; 521132;		
	516129; 516130; 516150;	521133; 521134; 521135;		
	516151; 516152; 516162;	521136; 521137; 521138;		
	516163; 516172; 516173;	521139; 521148; 521149;		
	516175; 516193; 516203;	521150; 521151; 521153;		
	516213; 516214; 516215;	521156; 521157; 521158;		
	516216; 516217; 516218;	521162; 521163; 521164;		
	516227; 516228; 516233;	521165; 521180; 521181;		
	516237; 516247; 516257;	521211; 521212; 521225;		
	516259; 516267; 516268;	521228; 521229; 521230;		
	516269; 516270; 516289;	521231; 521241; 521245;		
	516293; 516309; 516310;	521246; 521247; 521250;		
	516312; 516321; 516329;	521256; 521260; 521261;		
	516330; 516339; 516349;	521263; 521286; 521301;		
	516350; 516355; 516356;	521311; 521312; 521321;		

State	Low	Medium	High
Name			
	516359; 516361; 516362;	521322; 521323; 521324;	
	516380; 516390; 516391;	521325; 521326; 521327;	
	516396; 516401; 516411;	521328; 521329; 521330;	
	516421; 516431; 516432;	521331; 521332; 521333;	
	516433; 516434; 516439;	521343; 521344; 521345;	
	516444; 516454; 516464;	521356; 521366; 521369;	
	516474; 516484; 516501;	521390; 522001; 522002;	
	516502; 516503; 516504;	522003; 522004; 522005;	
	516505; 517001; 517002;	522006; 522009; 522015;	
	517004; 517101; 517102;	522016; 522017; 522018;	
	517112; 517113; 517123;	522019; 522020; 522034;	
	517124; 517125; 517126;	522102; 522112; 522113;	
	517127; 517128; 517129;	522124; 522201; 522202;	
	517130; 517131; 517132;	522211; 522212; 522213;	
	517152; 517167; 517172;	522233; 522234; 522235;	
	517192; 517193; 517194;	522236; 522237; 522238;	
	517213; 517214; 517234;	522239; 522240; 522256;	
	517235; 517236; 517237;	522257; 522258; 522259;	
	517247; 517257; 517277;	522261; 522265; 522268;	
	517280; 517291; 517297;	522301; 522302; 522303;	
	517299; 517305; 517319;	522304; 522305; 522306;	
	517325; 517326; 517350;	522307; 522308; 522309;	
	517351; 517352; 517370;	522310; 522311; 522312;	
	517390; 517391; 517401;	522313; 522315; 522316;	
	517403; 517408; 517414;	522317; 522318; 522324;	
	517415; 517416; 517417;	522325; 522330; 522341;	
	517418; 517419; 517421;	522401; 522402; 522403;	
	517422; 517423; 517424;	522408; 522410; 522411;	
	517425; 517429; 517432;	522412; 522436; 522438;	
	517501; 517502; 517503;	522501; 522502; 522503;	
	517504; 517505; 517506;	522508; 522509; 522529;	
	517507; 517520; 517526;	522549; 522601; 522603;	

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State Name	Low	Medium	High	State Name	Low	Medium	High
Ivanie	517536; 517551; 517561;	522611; 522614; 522615;		Ivallie	521401; 521402; 521403;	524131; 524137; 524142;	
	517569; 517571; 517581;	522616; 522617; 522619;			521456; 521457; 522409;	524152; 524201; 524203;	
	517582; 517583; 517584;	522626; 522646; 522647;			522413; 522414; 522415;	524223; 524224; 524225;	
	517586; 517587; 517589;	522649; 522657; 522658;			522421; 522426; 522435;	524228; 524234; 524239;	
	517590; 517591; 517592;	522659; 522660; 522661;			522437; 522612; 522613;	524240; 524304; 524305;	
	517599; 517619; 517620;	523001; 523002; 523101;			522663; 523108; 523112;	524306; 524308; 524309;	
	517640; 517641; 517643;	523104; 523105; 523109;			523223; 523224; 523227;	524311; 524313; 524314;	
	517644; 518002; 518003;	523110; 523111; 523113;			523228; 523315; 523316;	524315; 524316; 524317;	
	518004; 518006; 518007;	523114; 523115; 523116;			523320; 523326; 523327;	524318; 524319; 524320;	
	518010; 518101; 518102;	523117; 523135; 523155;			523328; 523329; 523330;	524321; 524322; 524323;	
	518112; 518122; 518123;	523157; 523165; 523166;			523331; 523332; 523333;	524341; 524342; 524344;	
	518124; 518134; 518135;	523167; 523168; 523169;			523334; 523335; 523336;	524345; 524346; 524347;	
	518145; 518155; 518165;	523170; 523171; 523180;			523346; 523356; 523357;	524366; 524401; 524402;	
	518166; 518176; 518186;	523181; 523182; 523183;			523367; 523368; 523369;	524403; 524405; 524406;	
	518196; 518206; 518216;	523184; 523185; 523186;			523370; 523371; 523372;	524407; 524409; 524410;	
	518217; 518218; 518220;	523187; 523190; 523201;			523373; 524132; 524134;	524411; 524412; 524413;	
	518222; 518401; 518405;	523211; 523212; 523213;			524221; 524222; 524226;	524414; 524415; 524421;	
	518411; 518412; 518422;	523214; 523225; 523226;			524227; 524230; 524236;	534002; 534004; 534437	
	518432; 518442; 518452;	523230; 523240; 523241;			524301; 524302; 524303;		
	518467; 518501; 518502;	523245; 523246; 523247;			524307; 524310; 524312;		
	518508; 518510; 518511;	523252; 523253; 523254;			524343; 524404; 524408;		
	518512; 518513; 518523;	523260; 523261; 523262;			531087; 531115; 531127;		
	518533; 518543; 518553;	523263; 523264; 523265;			533001; 533002; 533003;		
	518563; 518573; 518583;	523270; 523271; 523272;			533005; 533006; 533016;		
	518593; 518594; 518598;	523273; 523274; 523279;			533101; 533102; 533104;		
	518599; 518674; 521105;	523280; 523281; 523286;			533106; 533107; 533124;		
	521170; 521175; 521178;	523291; 523292; 523301;			533125; 533126; 533201;		
	521182; 521183; 521184;	523302; 523303; 523304;			533210; 533211; 533212;		
	521185; 521190; 521201;	523305; 524001; 524002;			533213; 533214; 533215;		
	521202; 521207; 521213;	524003; 524004; 524101;			533216; 533217; 533218;		
	521214; 521215; 521226;	524121; 524123; 524124;			533220; 533221; 533222;		
	521227; 521235; 521340;	524126; 524127; 524129;			533223; 533228; 533229;		

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State Name	Low	Medium	High	State Name	Low	Medium	High
Tame	533232; 533233; 533234;			Tame	534124; 534126; 534134;		
	533235; 533236; 533237;				534145; 534146; 534156;		
	533238; 533239; 533240;				534165; 534166; 534176;		
	533241; 533242; 533244;				534186; 534195; 534196;		
	533247; 533248; 533249;				534197; 534198; 534199;		
	533250; 533251; 533252;				534201; 534202; 534206;		
	533253; 533254; 533255;				534207; 534208; 534209;		
	533256; 533260; 533261;				534210; 534211; 534216;		
	533262; 533263; 533264;				534217; 534218; 534222;		
	533274; 533284; 533285;				534225; 534227; 534230;		
	533286; 533287; 533288;				534235; 534236; 534237;		
	533289; 533290; 533291;				534238; 534239; 534240;		
	533292; 533293; 533294;				534243; 534244; 534245;		
	533295; 533296; 533297;				534247; 534250; 534260;		
	533305; 533306; 533307;				534265; 534266; 534267;		
	533308; 533309; 533339;				534268; 534269; 534275;		
	533340; 533341; 533342;				534280; 534281; 534301;		
	533343; 533344; 533345;				534302; 534305; 534311;		
	533346; 533348; 533401;				534312; 534313; 534315;		
	533406; 533407; 533408;				534316; 534318; 534320;		
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	533434; 533435; 533436;				534331; 534338; 534340;		
	533437; 533440; 533444;				534341; 534342; 534350;		
	533445; 533446; 533447;				534401; 534406; 534411;		
	533448; 533449; 533450;				534416; 534425; 534426;		
	533461; 533462; 533463;				534427; 534432; 534435;		
	533464; 533468; 533483;				534442; 534447; 534448;		
	533577; 534001; 534003;				534449; 534450; 534451;		
	534005; 534006; 534007;				534452; 534455; 534456;		
	534101; 534102; 534111;				534460; 534461; 534462;		
	534112; 534122; 534123;				534467; 534475		

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State	Low	Medium	High	State	Low	Medium	High
Name				Name			
Tamil	600001; 600002; 600004;	600019; 600021; 600039;			603203; 603204; 603209;		
Nadu	600005; 600007; 600010;	600051; 600052; 600057;			603210; 603211; 603301;		
	600011; 600016; 600017;	600060; 600066; 600067;			603302; 603303; 603304;		
	600025; 600028; 600032;	600068; 600081; 600099;			603305; 603306; 603307;		
	600034; 600036; 600037;	600103; 600118; 600120;			603308; 603309; 603310;		
	600040; 600041; 600042;	601101; 601102; 601103;			603311; 603312; 603313;		
	600043; 600044; 600045;	601201; 601202; 601203;			603314; 603319; 603401;		
	600048; 600049; 600050;	601204; 601205; 601206			603402; 603403; 603405;		
	600053; 600054; 600055;				603406; 604001; 604101;		
	600056; 600058; 600059;				604102; 604151; 604152;		
	600061; 600062; 600063;				604153; 604154; 604201;		
	600064; 600069; 600071;				604202; 604203; 604204;		
	600072; 600073; 600074;				604205; 604206; 604207;		
	600076; 600077; 600083;				604208; 604210; 604301;		
	600087; 600089; 600090;				604302; 604303; 604304;		
	600091; 600092; 600095;				604305; 604306; 604307;		
	600096; 600097; 600100;				604401; 604402; 604403;		
	600106; 600117; 600119;				604404; 604405; 604406;		
	600122; 600123; 600124;				604407; 604408; 604409;		
	600125; 600126; 600127;				604410; 604501; 604502;		
	600128; 600130; 600131;				604503; 604504; 604505;		
	600132; 601301; 602001;				604601; 605014; 605101;		
	602002; 602003; 602021;				605102; 605103; 605104;		
	602023; 602024; 602025;				605105; 605106; 605107;		
	602026; 602105; 602106;				605108; 605109; 605110;		
	602108; 602117; 603001;				605111; 605201; 605202;		
	603002; 603003; 603004;				605203; 605301; 605302;		
	603101; 603102; 603103;				605401; 605402; 605501;		
	603104; 603105; 603106;				605502; 605601; 605602;		
	603107; 603108; 603109;				605651; 605652; 605701;		
	603110; 603111; 603112;				605702; 605751; 605752;		
	603127; 603201; 603202;				605754; 605755; 605756;		

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State Name	Low	Medium	High	]	State Name	Low	Medium	High
Ivanie	605757; 605758; 605766;				Ivanie	631303; 631402; 631501;		
	605803; 606102; 606107;					631502; 631551; 631552;		
	606115; 606601; 606603;					631553; 631561; 631601;		
	606604; 606611; 606701;					631603; 631604; 631605;		
	606702; 606704; 606705;					631606; 631701; 631702;		
	606706; 606707; 606709;					632001; 632002; 632006;		
	606710; 606751; 606752;					632007; 632009; 632010;		
	606753; 606754; 606755;					632011; 632013; 632014;		
	606801; 606802; 606803;					632055; 632057; 632058;		
	606804; 606805; 606806;					632059; 632101; 632102;		
	606807; 606808; 606811;					632103; 632104; 632105;		
	606901; 606902; 606903;					632106; 632107; 632113;		
	606904; 606905; 606906;					632114; 632201; 632202;		
	606907; 606908; 607001;					632203; 632204; 632209;		
	607002; 607003; 607004;					632301; 632311; 632312;		
	607005; 607006; 607101;					632313; 632314; 632315;		
	607102; 607103; 607104;					632316; 632317; 632318;		
	607105; 607106; 607107;					632319; 632326; 632401;		
	607108; 607109; 607112;					632403; 632404; 632405;		
	607201; 607203; 607204;					632406; 632501; 632502;		
	607205; 607209; 607301;					632503; 632504; 632505;		
	607302; 607401; 607402;					632506; 632507; 632508;		
	607805; 608501; 608801;					632509; 632510; 632511;		
	631001; 631002; 631003;					632512; 632513; 632514;		
	631004; 631005; 631006;					632515; 632516; 632517;		
	631051; 631052; 631101;					632518; 632519; 632520;		
	631102; 631151; 631152;					632521; 632531; 632601;		
	631201; 631202; 631203;					632603; 632604; 635652;		
	631204; 631205; 631206;					635653; 635655; 635701;		
	631207; 631208; 631209;					635702; 635703; 635710;		
	631210; 631211; 631212;					635751; 635752; 635754;		
	631213; 631301; 631302;					635801; 635802; 635803;		

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State Name	Low	Medium	High
	635804; 635805; 635806; 635807; 635808; 635809; 635810; 635811; 635812; 635813; 635814; 635851; 635852; 635853		

Source: IMD Bulletin https://indianexpress.com/article/cities/chennai/chennai-rain-live-updates-rain-traffic-stalin-cyclone-tamil-nadu-9049685/

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