## **ANNEX 5.9: e-service Performance KPI's**

The below stated MODEE KPIs values to be achieved over internet for non-cached pages, cached numbers should be much less, also many on the numbers depends on gateway bandwidth at MODEE. The below sections act as the accepted thresholds for all MODEE developed websites and vendor should assure they are in comply with these guidelines before requesting Performance and stress test from MODEE.

Performance Metrics for E-	Description	Value /
services Criteria / Element		Measurement
Time to First Byte	Time elapsed for the first byte of a website to make it to the visitor's browser	Less than 3 sec
Time to Last Byte	Time elapsed when every bite of a website has made it to the visitor's browser	Less than 6-9 sec
Time to Connect	Time elapsed from initial request to when the connection between the visitor's browser and an origin server is established	Less than 2 sec
Page Load Time ( for both Eservices and Informational Wesbites)	Page load time is the average amount of time it takes for a page to appear on your client's screen. To measure page load time, you should be testing website speed using available tools.	Largest Concertful Paint (LCP): should occur within 3 seconds of when the page first starts loading. First Input Delay (FID): pages should have a FID of 200 milliseconds or less. Cumulative Layout Shift (CLS): pages should maintain a CLS of 0.1. or less.
Time to Start Render	Time elapsed when the first visible element appears on the blank page	Less than 6 sec
Throughput:	The quantity of useful work	[15 request/second]

## **Content Complexity Metrics for E-services**

Criteria / Element	Description	Value /
		Measurement
Capacity	The capability of the newer	
	system to handle a number	
	of simultaneous requests	
	from the network for the	
	application and the volume	
	of data that it can handle	
	from each of the users	
	(Internal users through the	
	LAN as well as external users	
	through the internet/	
	dedicated WAN). In addition	
	to the H/W capacity such as	
	processing capability of all	
	servers including DB, Apps.	
	[CPU Utilization: 80%,	
	Memory Utilization: 80%.	
Weight Basis		
Page Weight	Total weight of assets	Not exceeding 2 – 4.5 MB
	including requests, domains,	
	HTML, JavaScript, CSS,	
	images, media and others	
JS Weight	Weight of Java Scripts	Not exceeding 1600 KB
CSS Weight	Weight of Cascading Style	Not exceeding 1800 KB
	Sheets	
Image Weight	Weight of site images	Not exceeding 1.75- 2.5 MB
Count Basis		
Asset Count	Total number of assets	Not more than 100
	including requests, domains,	
	HTML, JavaScript, CSS,	
	images, media and others	
Image Count	Images count in a site	Less than 50

• For Informative websites that need to have higher asset resources CDN network should be

• For any web services that used Video asset CDN network should be used.

## **Site Availability and Access Metrics:**

Site Availability and Access Wethes.				
Criteria / Element	Description	Value /		
		Measurement		
Uptime (Availability) in	System availability uptime	99 %		
stress test	vs. system downtime within			
	Stress test			
Active Users	The number of concurrent	The number of concurrent		
	users that the website	users will be determined		
	should be handled during	during the project initiation		

used.

the load test, with lowest error rate ratio.	phase. If not mentioned, the default value will be 200 users.
	Error rate less than 0.9%