Pre-bid Clarifications No. 3 against NIB No. 381

S No	RFP/Corrigendum Clause	Query/Concern	Draft reply to bidder
1	Annexure 3 : Deed of Joint Undertaking	While bidder shared its point of view during the pre-bid stage as well - Many global CSPs have an indirect bidding model via channel partners and they do not bid directly or enter into consortium/Joint Undertaking in response to RFPs	Bid condition shall prevail
		Hence it is not possible for us to sign the Deed of Joint undertaking which was added in corrigendum dated 22nd April 2021 This clause is restricting participation of all cloud providers that participate indirectly irrespective of how good a technology they have	
2	*The bidder should be certified by SAP to provide SAP operations.*	This clause is ambiguous and restricting participation of the bidder as a CSP. We are not aware of any "SAP certification to provide SAP operations" and will be unable to produce this proof. SAP issues a list on their website for "SAP certified hardware"	Bid condition shall prevail
3	Commercial Bid Format for non-prod setup	In a true cloud setup, customers typically run their non-prod SAP environment for only 35% time out of the total contract duration (10 hrs/day x 22 day/months x 60 months). The current commercial bid format is asking for price discovery assuming 100% runtime (24 hrs x 30 days x 60 months) which is not reflecting the actual utilization and giving disadvantage to true cloud providers who bill customers on a per minute or per hour basis.	Bid condition shall prevail
4	The Data Center Facility of the CSP shall at minimum implement the security toolset. Security & Data Privacy (Data & Network Security including Anth-Virus, Virtual Firewall, Multi Factor Authentication, VPN, IPS, Log Analyzer / Syslog, SSL, DDoS Protection, HIDS / NIDS, Rights Management, SIEM, Integrated Vulnerability Assessment, SOC, Private Virtual Zones, Data Privacy, Data Encryption, Authentication & Authorization, and Auditing & Accounting)*	This description of security requirements is ambiguous and will give advantage to certain CSP who may have a better understanding of the deliverable and inflate the cost of all other CSPs by a huge margin. We request that the need for each of these components be evaluated again and proper specification and mechanism to check during evaluation stage if these components have been incorporated or not is added to the RFP.	RFP specifies the broad level requirements which every CSP needs to comply to meet MeitY guidelines Hence bid condition shall prevail
5	Annexure 1: Hardware Sizing	There is no mechanism in RPP using which NEEPCO can validate during bid evaluation and during contract execution that the bidder is giving the required number of SAPS at the VM level and required no of IOPS at the storage level Consequently, certain CSP(s) may do cost-cutting on cloud infrastructure to become L1, creating possible performance issues with cloud at later stage for NEEPCO'S SAP. Hence we strongly suggest that – NEEPCO should ask all VM should be SAP Certified & for each VM being quoted in the bid, the SAPS offered by that VM and IOPS offered by that storage are provided along with	Bid condition shall prevail
		relevant SAP note from SAP Website.	For items for which there is no provision for quoting
		Points of mismatch between BOQ and Price Bid Schedule. Please note that the total no. of VMs which are there in the price bid, it is not matching with the count given in the Final Hardware Sizing document.	prices in the line items of the Price Schedules, bidder may quote price of such line items under Additional row as provisioned in the following price
		For instance, for the DC environment, the total no. of VMs given in the Final Hardware Sizing document for the Production environment is 41 whereas in the Price Bid sheet, it is 35	Price Schedule 1. F. Any additional items: Sl. No. 1: Additional items
6	Price Schedule	in the UK environment, the total no. of VMs given in the Final Hardware Sizing document is 33 whereas in the Price Bid, it is 27	Price Schedule 2 C Any additional items: SI No. 1. Additional items Price Schedule 3 C Any additional items: SI. No. 1. Additional items
			If any additional items are considered by the bidders, unpriced details of such items including description, unit of measurement and quantity should be submitted in the techno-commercial bid. For the additional components, the break-up of prices shall be sought later by NEEPCO, if necessary, after opening of price bids.
7			The revised final Hardware Sizing is attached as Annexure 1
		backups of all the data including but not limited to files, folders, images, system state, databases and enterprise applications as per the policy defined by Meltry or NEEPCO." In the corrigendum, it is asked to take the daily full backup	SAP recommends daily full database backup and hourly transaction log backup for SAP enviornment. Retention period will be 15 days for Production enviornment and 7 days for Development & Quality/Test enviornment
8		Infer's is no consistent & complete backup & retention policy. Now in order to accomplish the above ask, we would need to take the snapshot & flat fille backup as it would involve everything from filest folders etc. to the system state. If we consider the BoQ & the RFP, the daily full snapshot backup with 30 days retention will go into Petabytes which is not the ideal solution.	Compressed golden image backup of all non- HANA DB VM's needs to take on quaterly basis with latest copy as retention STB storage space required for daily full database thourly transaction log backup with 30% yearly
	\	Ne recommend to go with snapshot backup for 2 days and data backup with point in time recovery for 30 days.	growth for next 5 years CSP has to consider separate storage space for compressed golden image backup
,	i i	MPLS. In the corrigendum, it is mentioned that "NEEPCO would be using its own MPLS as its primary connectivity to DC & DR" whereas in the commercial format, it is asked by NEEPCO to provide prices for "50 Abps MPLS NEEPCO Head Office to CSP DC Location". Please confirm if the CSP has to give the MPLS connectivity	Bidder may refer SI No 4 of Corrigendum No. 2, lated 22 04 2021
		NEEPCO would use its own MPLS, then what does the CSP need to fill in the commercial format?	





Sr. No.	. System (VM) - DC	QTY			SA	APS Re	quired			SAPS Offered	No. of CP Cores	CPU Model			R	AM (GB))		Storage (GB) - OS, SWAP & Application	Storage (GB) - Database (SSD)	Operating System	OS level Cluster	Туре	Remarks
						_			_		PRODU	ICTION LAN		E							1	1		
	SAP S/4HANA		Total SAPS	Year	1 Year	2 Y	ear 3	Year 4	Year 5				Total	Year 1	Year 2	Year	3 Year	4 Year 5						
1	SAP S/4 HANA DB - HANA DB - Primary			2450	0 245	500	32664	40832	49000					768	768	102	4 128	0 1536	500	7680	RHEL for HANA / SUSE for HANA		Dedicated	CSP has to propose required SAPs/vCPUs for HANA DB VM based on HANA DB RJ
2	SAP S/4 HANA DB - HANA DB - Secondary (HA Node)	1	49000	2450	0 245	500	32664	40832	49000				1536		768		4 128			7680	RHEL for HANA / SUSE for HANA	Yes	Dedicated	CSP has to propose required SAPs/vCPUs for HANA DB VM based on HANA DB RA
	SAP S/4 HANA APP (ASCS)			416					8320				64						000		RHEL for SAP / SUSE for SAP	Yes	Dedicated	
5	SAP S/4 HANA APP (ASCS) SAP S/4 HANA APP (PAS)			832			9984		8320		-	-	64	32	32	48	64		500		RHEL for SAP / SUSE for SAP	1,42	Dedicated	
6	SAP S/4 HANA APP (AAS)								9984 9984				64	64	64			64	500		RHEL for SAP / SUSE for SAP		Dedicated	
7	SAP S/4 HANA APP (AAS)	1	9984	-	1				9984				64	04	04	64					RHEL for SAP / SUSE for SAP RHEL for SAP / SUSE for SAP		Dedicated Dedicated	
8	SAP S/4 HANA APP (AAS)		3328						3328				32			1	1	32	500		RHEL for SAP / SUSE for SAP		Dedicated	
	SAP FIORI FES		Total	Year	Year	2 V	ear 3	Vear A	Year 5				Total	Vane 1	Van 2	V	3 Year 4	1000						
0			SAPS	10000	10000	200		2000		4			RAM											
10	SAP FIORI (ASCS + ASE DB) SAP FIORI (ASCS + ASE DB)				17			1755				-	16						500	800	RHEL for SAP / SUSE for SAP	Yes	Dedicated	
11	SAP FIORI (ASCS + ASE DB)	1	4095	4005	17:	55 5c	4095	4095	1755 4095			1	16 32	32	16				500		RHEL for SAP / SUSE for SAP		Dedicated	
	SAP NW EP (ESS/MSS)		Total		Year				Year 5	1		1	Total	1000					500		RHEL for SAP / SUSE for SAP		Dedicated	
	The state of the s				(60%				(100%)				RAM	Year 1	Year 2	Year :	Year 4	Year 5						
	SAP EP (SCS + ASE DB)	1 1	4014	2007	240	08	3010	3412	4014				32	16	16	24	32	32	500	800	RHEL for SAP / SUSE for SAP		Dedicated	
13	SAP EP (SCS + ASE DB)	1	4014	2007	240	08	3010	3412	4014				32	16	16	24	32	32	500		RHEL for SAP / SUSE for SAP	Yes	Dedicated	
	SAP EP (PAS)			4682	56:	18	7023	7960	9364			-	76	32	32	64		76	500		RHEL for SAP / SUSE for SAP		Dedicated	
-	SAP Process Orchestration (PO)		Total	Year 1	Year	2 Ye	ear 3	Year 4	Year 5	1		1	Total	Year 1	Year 2	Year 3	Year 4	Year 5						
15	SAP PO APP + SYBASE DB (SCS + DB + PAS)			A.Ca-	45	ra l	Core	A.C.	4 Core	-	10	1	RAM	1000					-	957				
16	SAP PO APP + SYBASE DB (SCS + DB + PAS)								4 Core		4 Core		32	32	32				500	800	RHEL for SAP / SUSE for SAP	Yes	Dedicated Dedicated	
	SAP Business Objects		Total	Year 1	Year	2 Ye		Year 4			47016		Total			100			500		RHEL for SAP / SUSE for SAP	-	Dedicated	
				(50%)	(60%)	(7			(100%)	1			RAM	Year 1	Year 2	Year 3	Year 4	Year 5						
17	SAP Business Objects (BO) - 1															1	1							
	(Database+Intelligence+processing+web)	1	10000	1000	100	00 1	0000	10000	10000				80	80	80	80	80	80	500	400	RHEL for SAP / SUSE for SAP		Dedicated	
18	SAP Business Objects (BO) - 2		and a		1													1					Dedicated	
-	(Database+Intelligence+processing+web)	1 1	8200		1	-	_	8200	8200				64		-		64	64	500		RHEL for SAP / SUSE for SAP		Dedicated	
	SAP ERP (LSO)	1 1	otal	Year 1	Year	2 Ye	ar 3	Year 4	Year 5				Total			1	1		1					
		1 15	APS	(80%)	(80%)	(10	00%)	(100%)	(100%)	1			RAM	Year 1	Year 2	Year 3	Year 4	Year 5	1 1					1
19	SAP ERP - LSO (ASCS + ASE DB)	1	1794	1435	143	5	1794	1794	1794	1			16	16	16	16	16	16	500	800			B C . 1	
0	SAP ERP - LSO (ASCS + ASE DB)	1	1794	1435	143				1794				16	16					500	800	RHEL for SAP / SUSE for SAP RHEL for SAP / SUSE for SAP	Yes	Dedicated Dedicated	
1	SAP ERP -LSO (PAS)	1	4186	3350	335	0 4	4186	4186	4186				32	24					500		RHEL for SAP / SUSE for SAP		Dedicated	
1	SAP NW EP (LSO)	1 1	otal	Year 1	Year 2	Ye	ar 3	Year 4	Year 5				Total 1	12792112-0-7	The state of the state of		27 645000	W International International						
		S	APS	(50%)	(60%)	(75	5%)	(85%)	(100%)				RAM			1	Year 4	Year 5	1					
22	SAP NW EP - LSO (SCS + ASE DB) SAP NW EP - LSO (SCS + ASE DB)	1	3084	1542	185	0 2	2313	2621	3084	1			24		16				500	800	RHEL for SAP / SUSE for SAP	Yes	Dedicated	
4	SAP NW EP - LSO (PAS)	1	7106	2500	431	0 2	5397	2621	3084 7196				24			24			500		RHEL for SAP / SUSE for SAP		Dedicated	
	SAP GRC (AC)		otal		Year 2				Year 5				56 Total	32	A STATE OF THE PARTY OF	48	56	56	500		RHEL for SAP / SUSE for SAP		Dedicated	
				(50%)	(60%)	(75	5%)		(100%)				RAM	Year 1	Year 2	Year 3	Year 4	Year 5	1					
	SAP GRC (ASCS + ASE DB)	1	7808	3904	468	5 5		6637	7808				64	32	32	42	64	64	500	800	RHEL for SAP / SUSE for SAP	200	Dedicated	
6	SAP GRC (ASCS + ASE DB)								7808				64						500		RHEL for SAP / SUSE for SAP	Yes	Dedicated	
7	SAP GRC (PAS)			9110	911	0 9		9110					72	72	72	72	72		500		RHEL for SAP / SUSE for SAP		Dedicated	
0	SAP GRC (AAS) SAP NW EP (IDM + SSO)	1		V					9110				72			-	72	72	500		RHEL for SAP / SUSE for SAP		Dedicated	
1	3AF HW EF (IDM + 330)				Year 2 (70%)			Year 4 (90%)	Year 5 (100%)	1			Total	Year 1	Year 2	Year 3	Year 4	Year 5						
9	SAP EP (SCS + ASE DB)	1	3783	2270	264	8 3	1026	3404	3783	1	-		32	16	16	24	32	32	500	500	RHEL for SAP / SUSE for SAP		Dedicated	
0	SAP EP (SCS + ASE DB)	1	3783	2270	264	8 3	8026	3404	3783				32		16				500	500	RHEL for SAP / SUSE for SAP	Yes	Dedicated	
	SAP EP (PAS)	1	8827	5296	617	9 7	7062	7944	8827				72	36		48			500		RHEL for SAP / SUSE for SAP		Dedicated	
1	SAP MII	T	otal	Year 1	Year 2	Yes	ar 3	rear 4	Year 5				Total	Year 1	Year 2	1				1	, 500E 101 5/F		meed	
. 1	CAD ANY (CCC. ACC DE)				(80%)		196)	90%)	(100%)	1 1			RAM	ESTAN/And		No.		The second second		- 1				
2 2	SAP MII (SCS + ASE DB) SAP MII (SCS + ASE DB)	1	5215	4172	417.	2 4	172	4694	5215				42	32	32				500	500	RHEL for SAP / SUSE for SAP	Yes	Dedicated	
4	SAP MII (SCS + ASE DB)								5215 10000	-	-		42	32	32	32	42		500		RHEL for SAP / SUSE for SAP		Dedicated	
	SAP MII (AAS)	1 2	2168	TOORY	4000	1	COON	10000	2168		-		16	80	80	80	80	80 16	500		RHEL for SAP / SUSE for SAP		Dedicated Dedicated	
	SAP Content Server				Year 2	Yes	ar 3	fear 4	Year 5			-	Total						500	-	RHEL for SAP / SUSE for SAP	-	Dedicated	
		S	APS	(50%)	(60%)	(75	(%)	85%)					MAS	Year 1	Year 2	Year 3	Year 4	Year 5						
	SAP DMS (DB + APP)	1 7	7800		468								64	32	32	48	48	64	500	1024	RHEL for SAP / SUSE for SAP		Dedicated	
15	SAP Solution Manager	T	otal		1000	30	ar 3 V	ear 4	Year 5		1		otal		Year 2			Year 5		1				
,	CAD Colution Manager (ADAD 1994)		APS		1								MAS		1	7.11	3	Kiterassi						
	SAP Solution Manager (ABAP+JAVA) - DB SAP Solution Manager (ABAP+JAVA) - APP + Saprouter	1 1				3	000	3000	3000				24	24	24	24			500	1024	RHEL for SAP / SUSE for SAP	Yes	Dedicated	
6	SAP WebDispatcher		otal		I STATE OF	1		5000					40 otal	40		40			500		RHEL for SAP / SUSE for SAP		Dedicated	
			APS	Year 1	Year 2	Yea	ar 3 Y	ear 4	Year 5				otal AM	Year 1	Year 2	Year 3	Year 4	Year 5						
S	SAP Web Dispatcher - FIORI			2000	2000	2	000	2000	2000		10		16	16	16	16	16	16	200		RHEL for SAP / SUSE for SAP		Dedicated	
S	SAP Web Dispatcher - EP (ESS/MSS)	1 2	000	2000	2000	20		2000	2000				16	16		16			200		RHEL for SAP / SUSE for SAP		Dedicated	
S	SAP Web Dispatcher - NW EP (LSO)	1 2	1000	2000	2000	20		2000	2000				16	16	16	16	16	16	200		RHEL for SAP / SUSE for SAP	-	Dedicated	
1	Total	al 41													2612	3372	4192	4768	19600	23608				
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			PS .	fear 1	Year 2	Yea	r3 Y	ear 4	Year 5				otal	Year 1	Year 2	Year 3	Year 4	Year 5			The state of the s			
S	SAP S/4HANA DB - HANA DB			24500	2450	0 32	664	40832	49000				AM	MAXWE 1000		-	Contract of the last	1536	500	7600	DUEL COLUMN / COME C			
T			test.		Service Co.	200	CONTRACTOR OF THE						nead	W				ALC: U	500	7680	RHEL for HANA / SUSE for HANA		onsumption	CSP has to propose required SAPs/vCPUs for HANA DB VM based on HANA DB RA
			PS	fear 1	Year 2	Yea	r3 Y	ear 4	Year 5				AM	Year 1	Year 2	Year 3	Year 4	Year 5						
S	SAP S/4HANA APP (ASCS + PAS)	1 6	400	6400	6400	64	400	6400	6400				48	48	48	48	48	48	500		RHEL for SAP / SUSE for SAP	- 1,	Consumption	
S	AP FIORI (DB + APP)	1 3	150	3150	3150	31	150	3150	3150				32	32		32			500	800	RHEL for SAP / SUSE for SAP		Consumption	
15	SAP EP-ESS/MSS (DB + APP)	1 4	116	4116	4116	41	116	4116	4116				32	32	32	32	32	32	500	800	RHEL for SAP / SUSE for SAP		Consumption	
-		1 1 12	Care	2 Core	2 Con	e 120	ore 2	Core	2 Core		2 Core			24		-	1	1 22	500					
S	AP PO (DB + APP) AP Business Objects (BO)	1 2	COLE		-	-	-	7000	E COIC		2 Core		24	24	24	24	24	56	500	800	RHEL for SAP / SUSE for SAP	10	onsumption	





7 SAP ERP - LSO (DB + APP)		3220				0 3220			1	32	32		32		32	500	800	RHEL for SAP / SUSE for SAP	Consumption	
SAP NW EP - LSO (DB + APP)		1 5535								48			48		48	500	800	RHEL for SAP / SUSE for SAP	Consumption	
SAP GRC (DB + APP)		1 6006								48			48		48	500	800	RHEL for SAP / SUSE for SAP	Consumption	
SAP NW EP (IDM+SSO) (DB + APP)	1	1 4850	4850	4850	4850	0 4850	4850			36	36		36		36	500	500	RHEL for SAP / SUSE for SAP	Consumption	
1 SAP DMS	1	3000								24			24		24	500	500	RHEL for SAP / SUSE for SAP	Consumption	
2 SAP Web Dispatcher - FIORI		2000								16			16		16	200		RHEL for SAP / SUSE for SAP	Consumption	
3 SAP Web Dispatcher - EP (ESS/MSS)		2000								16					16	200		RHEL for SAP / SUSE for SAP	Consumption	
14 SAP Web Dispatcher - NW EP (LSO)			2000	2000	2000	0 2000	2000			16					16	200		RHEL for SAP / SUSE for SAP	Consumption	
Total	1	4			1				2 Core		1196	1196	1452	1708	1964	6100	13880			
									DEVELOPME	NT LANDSCA	DE									
		Total	T	1	T	1	1	1 1	DEAETONAIS	Total			1		T		T	I		
		SAPS	Year 1	Year 2	Year 3	3 Year 4	Year 5			RAM	1	Year 2	Year 3		Year 5					
1 SAP S/4HANA DB - HANA DB	1	1 10000	10000	10000	1000	00 1000	10000	0		256	256		256	256	256	500	1280	RHEL for HANA / SUSE for HANA	Consumption	CSP has to propose required SAPs/vCPUs for HANA DB VM based on HANA DB RAI
2 SAP S/4HANA APP (ASCS + PAS)	1		3840							32	32	32	32	32	32	500		RHEL for SAP / SUSE for SAP	Consumption	
3 SAP FIORI (DB + APP)	1	1 1800	1800	1800	1800	0 1800	1800			16	16	16	16	16	16	500	600	RHEL for SAP / SUSE for SAP	Consumption	
4 SAP EP-ESS/MSS (DB + APP)		3087								24						500	600	RHEL for SAP / SUSE for SAP	Consumption	
5 SAP PO (DB + APP)				2 Core					2 Core	16						500	600	RHEL for SAP / SUSE for SAP	Consumption	
		2800							2 core	24						500	300	RHEL for SAP / SUSE for SAP	Consumption	
6 SAP Business Objects (BO) 7 SAP ERP - LSO (DB + APP)		1 1840							_	16					16	500	600	RHEL for SAP / SUSE for SAP	Consumption	
									_	32					32	500	600	RHEL for SAP / SUSE for SAP	Consumption	
8 SAP NW EP - LSO (DB + APP)		3163							-							500	600	RHEL for SAP / SUSE for SAP		
9 SAP GRC (DB + APP)	1									32	32		32		32				Consumption	
10 SAP NW EP (IDM+SSO) (DB + APP)	1									24			24		24	500	400	RHEL for SAP / SUSE for SAP	Consumption	
11 SAP MII (DB + APP)		2674								24					24	500	400	RHEL for SAP / SUSE for SAP	Consumption	
12 SAP DMS		1 1800								16					16	500	400	RHEL for SAP / SUSE for SAP	Consumption	
13 SAP Web Dispatcher - FIORI	1	2000	2000	2000	2000	0 2000	2000			16	16	16	16	16	16	200	1	RHEL for SAP / SUSE for SAP	Consumption	
14 SAP Web Dispatcher - EP (ESS/MSS)		2000				0 2000	2000			16	16	16	16	16	16	200		RHEL for SAP / SUSE for SAP	Consumption	
15 SAP Web Dispatcher - NW EP (LSO)		2000			2000					16	16	16	16	16	16	200		RHEL for SAP / SUSE for SAP	Consumption	
Landing Marking House Council Mindows	1														1	1024	100000000000000000000000000000000000000	Windows Server 2012 or higher	Dedicated	
6 Landing Machine pump servery - Windows	1 *	4000	4000	4000	1 400	4000	4000			32	32	32	32	32	32					
	4-1 1	6							2 Core			592				7624	6380			
		0 1	-	1	_		-	1	E core	-	1 332	1 300	1 000	-	1					
Tot		Total		J	J	. V	V	T	SANDBO	LANDSCAPE Total	lyans .	Vans 2	Vane 2	Vored	Verr 5		1	T		
	1	Total SAPS	Year 1	William Control	Year 3		Year 5		SANDBO	Total RAM		Year 2	-	-	Year 5	Son	1024	RHEL for HANA / SUSE for HANA	Consumption	CSP has to groupse required SAPs/vCPLis for HANA DR VM based on HANA DR RANA DR RANA DR VM based on HANA DR RANA DR RA
1 SAP S/4HANA DB - HANA DB		10000	10000	10000	1000	0 1000	10000		SANDBO)	Total RAM 192	192	192	192	192	192	500	1024	RHEL for HANA / SUSE for HANA RHEL for SAP / SUSE for SAP		CSP has to propose required SAPs/vCPUs for HANA DB VM based on HANA DB RAI
1 SAP S/4HANA DB - HANA DB 2 SAP S/4HANA APP (ASCS + PAS)	1 1 1	1 10000	10000	10000 3840	1000	0 1000	10000		SANDBO	Total RAM 192 16	192 16	192 16	192 16	192 16	192 16	500		RHEL for SAP / SUSE for SAP	Consumption	
1 SAP S/4HANA DB - HANA DB 2 SAP S/4HANA APP (ASCS - PAS) 3 SAP FIORI (DB + APP)	1 1 1 1	1 10000 1 3840 1 1800	10000 3840 1800	10000 3840 1800	1000 3840 1800	00 1000 0 3840 0 1800	10000 3840 1800		SANDBO)	Total RAM 192 16	192 16 16	192 16 16	192 16 16	192 16 16	192 16 16	500 500	600	RHEL for SAP / SUSE for SAP RHEL for SAP / SUSE for SAP	Consumption Consumption	
1 SAP S/4HANA DB - HANA DB 2 SAP S/4HANA APP (ASCS + PAS) 3 SAP FIORI (DB - APP) 4 SAP EP-ESS/MAS(DB + APP)	1 1 1 1 1 1	1 10000 1 3840 1 1800 1 3087	10000 3840 1800 3087	10000 3840 1800 3087	1000 3840 1800 3087	00 1000 0 3840 0 1800 7 3087	3840 1800 3087			Total RAM 192 16 16	192 16 16 16	192 16 16 16	192 16 16 16	192 16 16 16	192 16 16 16	500 500 500	600	RHEL for SAP / SUSE for SAP RHEL for SAP / SUSE for SAP RHEL for SAP / SUSE for SAP	Consumption Consumption Consumption	
1 SAP S/4HANA DB - HANA DB 2 SAP S/4HANA APP (ASCS - PAS) 3 SAP FORK (DB - APP) 4 SAP EF-ESS/MSS (DB - APP) 5 SAP PG (DB - APP) 5 SAP PG (DB - APP)	1 1 1 1 1	1 10000 1 3840 1 1800 1 3087 1 2 Core	10000 3840 1800 3087 2 Core	10000 3840 1800 3087 2 Core	1000 3840 1800 3087 2 Cor	00 1000 0 3840 0 1800 7 3087 re 2 Cor	3840 1800 3087 e 2 Core	e	2 Core	Total RAM 192 16 16 16 16	192 16 16 16 16	192 16 16 16 16	192 16 16 16 16	192 16 16 16 16	192 16 16 16 16	500 500 500 500	600 600	RHEL for SAP / SUSE for SAP	Consumption Consumption Consumption Consumption	
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SAP S/4HANA DB - HANA DB SAP S/4HANA APP (ASCS + PAS) SAP FICRI (DB + APP) SAP EP-ESS/MSS (DB + APP) SAP DE (DB + APP) SAP OR (DB + APP) TO SAP NWE P (IDM-SSO) (DB + APP) SAP OR (DB + APP) TO SAP NWE P (IDM-SSO) (DB + APP) TO SAP NWE P (IDM-SSO) (DB + APP) SAP OR (DB + APP) TO SAP NWE P (IDM-SSO) (DB + APP) SAP OR (DB + APP) TO SAP NWE P (IDM-SSO) (DB +	1 1 1 1 1 1 1 1 1 1	1 100000 3840 1 1800 3840 1 1800 1 3087 2 Corr 1 2800 1 1840 3 163	10000 3840 1800 3087 2 Core 2800 1840 3163 4004 1800 2674 1800 Vear 1 4 Core 8 Core 8 Core	10000 3840 3840 3807 1800 3087 2 Corer 2800 1840 3163 3163 1800 Year 2	10000 3844 18000 2 Cor 2800 3164 4000 2 2674 1800 Year 3	00 1000 0 384040 7 3083 7 3083 7 2 2 Corre 1 2 Corre 2 Corre 1 2 Corre	0 100000 100000 1000000	LOAD & STE	2 Core 2 Core 4 Core 8 Core 8 Core contract per	Total RAM 192 192 166 166 166 166 166 166 166 166 166 16	192 16 16 16 16 16 16 16 16 16 16 16 16 16	192 16 16 16 16 16 16 16 16 16 16 16 16 16	192 16 16 16 16 16 16 16 16 16 16 16 16 16	192 16 16 16 16 16 16 16 16 16 16 16	192 16 16 16 16 16 16 16 16 16 16 16 16 368	\$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	600 600 600 300 600 600 600 400 400	BHEL for SAP / SUSE for SAP WINDOWS SERVER / SAP WINDOWS SERVER / SAP Windows SERVER / SAP	Consumption	
SAP S/4HANA DB - HANA DB SAP S/4HANA APP (ASCS + PAS) SAP FIORI (DB + APP) SAP EP-ESS/MSS (DB + APP) SAP DE (DB + APP) SAP Business Objects (BO) SAP ERP - LSO (DB + APP) SAP Business Objects (BO) SAP ROW EP - LSO (DB + APP) SAP NW EP - LSO (DB + APP) SAP NW EP - LSO (DB + APP) SAP NW EP - LSO (DB + APP) TO SAP NW EP - LSO (DB + APP) T	1 1 1 1 1 1 1 1 1 1	1 100000 3840 1 1800 3840 1 1800 1 3087 2 Corr 1 2800 1 1840 3 163	10000 3840 1800 3087 2 Core 2800 1840 3163 4004 1800 2674 1800 Vear 1 4 Core 8 Core 8 Core	10000 3840 3840 3807 1800 3087 2 Corer 2800 1840 3163 3163 1800 Year 2	10000 3844 18000 2 Cor 2800 3164 4000 2 2674 1800 Year 3	00 1000 0 384040 7 3083 7 3083 7 2 2 Corre 1 2 Corre 2 Corre 1 2 Corre	0 100000 100000 1000000	LOAD & STE	2 Core 2 Core 4 Core 8 Core 8 Core contract per	Total RAM 192 192 166 166 166 166 166 166 166 166 166 16	192 16 16 16 16 16 16 16 16 16 16 16 16 16	192 16 16 16 16 16 16 16 16 16 16 16 16 16	192 16 16 16 16 16 16 16 16 16 16 16 16 16	192 16 16 16 16 16 16 16 16 16 16 16	192 16 16 16 16 16 16 16 16 16 16 16 16 368	\$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	600 600 600 300 600 600 600 400 400	BHEL for SAP / SUSE for SAP WINDOWS SERVER / SAP WINDOWS SERVER / SAP Windows SERVER / SAP	Consumption	
SAP S/4HANA DB - HANA DB	1 1 1 1 1 1 1 1 1 1	1 100000 3840 1 1800 3840 1 1800 1 3087 2 Corr 1 2800 1 1840 3 163	10000 3840 1800 3087 2 Core 2800 1840 3163 4004 2574 1800 Vear 1 4 Core 8 Core 8 Core	10000 3840 3840 3807 1800 3087 2 Corer 2800 1840 3163 3163 1800 Year 2	10000 3844 18000 2 Cor 2800 3164 4000 2 2674 1800 Year 3	00 1000 0 384040 7 3083 7 3083 7 2 2 Corre 1 2 Corre 2 Corre 1 2 Corre	0 100000 100000 1000000	LOAD & STE	2 Core 2 Core 4 Core 8 Core 8 Core contract per	Total RAM 192 192 166 166 166 166 166 166 166 166 166 16	192 16 16 16 16 16 16 16 16 16 16 16 16 16	192 16 16 16 16 16 16 16 16 16 16 16 16 16	192 16 16 16 16 16 16 16 16 16 16 16 16 16	192 16 16 16 16 16 16 16 16 16 16 16	192 16 16 16 16 16 16 16 16 16 16 16 16 368	\$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	600 600 600 300 600 600 600 400 400	BHEL for SAP / SUSE for SAP WINDOWS SERVER / SAP WINDOWS SERVER / SAP Windows SERVER / SAP	Consumption	

Proposed OS needs to be same across all the landscapes i.e. Development, Quality, Production and Sandbox except Jump server

3yr &

Hardware Sizing - DR

. No.	System (VM) - DC	QTY			SAPS F	tequired			The state of the s	lo. of CPU Cores	CPU Model			RA	M (G5)			Storage (GB) - OS, SWAP & Application	Storage (GB) - Database (SSD)	Operating System	Туре	Remarks
				-					PRODUCTION	ON LANDS	CAPE			-	-113-111			-	-			
-	Can of turana		Total		T	T		I	T			Total			L	I						
	SAP S/4HANA		SAPS	Year 1	Year 2	Year 3	Year 4	Year 5				RAM	Year 1	Year 2	Year 3	Year 4	Year 5					
1	SAP S/4 HANA DB - HANA DB - Primary	1	49000	24500	24500	32664	40832	49000				1536	768	768	1024	1280	1536	500	7680	RHEL for HANA / SUSE for HANA	Dedicated	CSP has to propose required SAPs/vCPUs for HANA DB VM based on HANA DB RA
	SAP S/4 HANA APP (ASCS)	1		4160		5824	7072	8320				64	32	32	48	64	64	500		RHEL for SAP / SUSE for SAP	Consumption	
	SAP S/4 HANA APP (PAS)	1		8320		9984	9984	9984				64	64	64	64	64	64	500		RHEL for SAP / SUSE for SAP	Consumption	
	SAP S/4 HANA APP (AAS)	1	9984	8320		9984	9984	9984				64	64	64	64	64	64	500		RHEL for SAP / SUSE for SAP	Consumption	
	SAP S/4 HANA APP (AAS)	1 -		-		9984	9984	9984				64			64	64		500		RHEL for SAP / SUSE for SAP	Consumption	
	SAP S/4 HANA APP (AAS)	1	3328					3328			3	32					32	500	San	RHEL for SAP / SUSE for SAP	Consumption	
	SAP FIORI FES		Total SAPS	Year 1	Year 2	Year 3	Year 4	Year 5		Telle and		Total	Year 1	Year 2	Year 3	Year 4	Year 5					
		1	1755	1755	1755	1755	1755	1755				16	16	16	16	16	16	500		RHEL for SAP / SUSE for SAP	Dedicated	
	SAP FIORI (ASCS + ASE DB)	1	4095	4095		4095	4095	4095				32	32	32	32	32	32	500		RHEL for SAP / SUSE for SAP	Consumption	
	SAP FIORI (PAS)	1	Total	Year 1		Year 3	Year 4	Year 5				Total		1	1000							
	SAP NW EP (ESS/MSS)		SAPS	(50%)	(60%)	(75%)	(85%)	(100%)				RAM	Year 1	Year 2	Year 3	Year 4	Year 5					
0	CAR ED 1555 - ACE DOL	1	-	2007	100,000	127.000	3412					32	16	16	24	32	32	500		RHEL for SAP / SUSE for SAP	Dedicated	
	SAP EP (SCS + ASE DB)		9364	4682								76	32	32	64	76	76	500		RHEL for SAP / SUSE for SAP	Consumption	
	SAP EP (PAS)	1	Total	4002		1.000						Total										
	SAP Process Orchestration (PO)		SAPS	Year 1	Year 2	Year 3	Year 4	Year 5				BAN	Year 1	Year 2	Year 3	Year 4	Year 5	500	800	RHEL for SAP / SUSE for SAP	Dedicated	
	SAP PO APP + SYBASE DB (SCS + DB + PAS)				4 Core					4 Core		32	32	32	32	32	32	500	800	RHEL for SAP / SUSE for SAP	Consumption	
	SAP PO APP + SYBASE DB (SCS + DB + AAS)	1	4 Core		4 Core				-	4 Core	-	Total	32	32	32	32	32	300		MILL TOT SAP / SUSC TOT SAP	Canadinption	
	SAP Business Objects		Total SAPS	Year 1 (50%)	Year 2 (60%)	Year 3 (75%)	Year 4 (85%)	Year 5 (100%)				RAM (Year 1	Year 2	Year 3	Year 4	Year 5					
13	SAP Business Objects (BO) - 1	1		10000	10000	10000	10000	10000				80	80	80	80	80	80	500	400	RHEL for SAP / SUSE for SAP	Dedicated	
	(Database+Intelligence+processing+web) SAP Business Objects (BO) - 2	1		1000	1000	1000																
14	(Database+Intelligence+processing+web)	1	8200				8200	8200				64			-	64	64	500		RHEL for SAP / SUSE for SAP	Consumption	
	SAP ERP (LSO)		Total	Van 1	Year 2	Year 3	Vane 4	Year 5				Total										
			SAPS	(8D%)	(80%)	(100%)	(100%)					RAM	Year 1	Year 2	Year 3	Year 4	Year 5					
	CAD FOR ACC (ACC) ACC DR)	1	1794	1435	1435	1794	1794	1794				16	16	16	16	16	16	500		RHEL for SAP / SUSE for SAP	Dedicated	
	SAP ERP - LSO (ASCS + ASE DB)	1	4186	3350		4186	4186					32	24	24		32	32	500		RHEL for SAP / SUSE for SAP	Consumption	
	SAP ERP -LSO (PAS)		Total	Year 1	Year 2	Year 3	Year &	Year 5				Total										
	SAP NW EP (LSO)		exac	/ Special	160361	175%3	(85%)	(100%)				RAM	Year 1	Year 2	Year 3	Your 4	Year S					
47	540 404 50 450 455 - 455 001	1	3084	1542	1850	2313	2621	3084				24	16	16	24	24	24	500		RHEL for SAP / SUSE for SAP	Dedicated	
	SAP NW EP - LSO (SCS + ASE DB)	1	7196	3598		5397	6117					56	32	32	48			500		RHEL for SAP / SUSE for SAP	Consumption	
	SAP NW EP - LSO (PAS)	-	Total	Year 1	Year 2	Year 3	Year 4	Year 5			1 11 11 11 11 11 11 11 11 11 11 11 11 1	Total		V 1917			u.v.e					
	SAP GRC (AC)		SAPS	(50%)	(60%)	(75%)	(85%)	(100%)				RAM	Year 1	Year 2	Year 3	Year 4	Year 5					
10	SAP GRC (ASCS + ASE DB)	1	7808	3904	4685	5856	6637	7808				64	32	32	42	64	64	500		RHEL for SAP / SUSE for SAP	Dedicated	
	SAP GRC (ASCS + ASE OB)	1	9110	9110		9110	9110					72	72	72	72	72	72	500		RHEL for SAP / SUSE for SAP	Consumption	
	SAP GRC (AAS)	1	9110				9110	9110				72				72	72	500		RHEL for SAP / SUSE for SAP	Consumption	
	SAP NW EP (IDM + SSO)		Total	Year 1	Year 2	Year 3	Year 4	Year 5				Total	Year 1	Year 2	Year 3	Year 4	Year 5			AND DESCRIPTION OF THE PARTY OF	The state of the s	
	SAF ITT CF (ISM - 350)		SAPS	(60%)	(70%)	(80%)	(90%)	(100%)				RAM					1					
22	SAP EP (SCS + ASE DB)	1	3783	2270	2648	3026	3404	3783				32	16	16	24	32	32	500		RHEL for SAP / SUSE for SAP	Dedicated	
	SAP EP (PAS)	1	8827	5296	6179	7062	7944	8827				72	36	36	48	72	72	500		RHEL for SAP / SUSE for SAP	Consumption	
	SAP MII		Total	Year 1	Year 2	Year 3	Year 4	Year 5				Total	Year 1	Year 2	Year 5	Year 4	Year 5					
			SAPS	(80%)	(80%)	(80%)	(90%)	(100%)				RAM	0.77	1000000	2000						-	
24	SAP MII (SCS + ASE DB)	1	5215	4172	4172	4172	4694	5215				42	32	32	32	42	42	500		RHEL for SAP / SUSE for SAP	Dedicated	
	SAP MII (PAS)	1	10000	10000	10000	10000	10000	10000				80	80	80	80	80	80	500		RHEL for SAP / SUSE for SAP	Consumption	
	SAP MII (AAS)	1	2168	THE WIS				2168				16					16	500		RHEL for SAP / SUSE for SAP	Consumption	
	SAP Content Server		Total	Year 1	Year 2	Year 3	Year 4	Year 5				Total	Year 1	Year 2	Year 3	Year 4	Year 5					
			SAPS	(50%)	(60%)	(75%)	(85%)	(100%)				RAM									Do Mark 1	
27	SAP DMS (DB + APP)	1	7800	3900	4680	5460	6630	7800				64	32	32	48	48	64	500	1024	RHEL for SAP / SUSE for SAP	Dedicated	
	SAP Solution Manager		Total	Year 1	Year 2	Year 3	Year 4	Year 5				Total RAM	Year 1	Year 2	Year 3	Year 4	Year 5					
28	SAP Solution Manager (ABAP+JAVA) - DB	1	3000	3000	3000	3000	3000	3000				24	24	24	24		24	500	1024	RHEL for SAP / SUSE for SAP	Dedicated	
	SAP Solution Manager (ABAP+JAVA) - App + SAProuter	1		5000				5000				40	40	40	40	40	40	500		RHEL for SAP / SUSE for SAP	Consumption	
23	SAP WebDispatcher	1	Total									Total	Year 1	Year 2	Year 3	Year 4	Year 5			TO THE RESERVE OF THE PARTY OF		
	JAL TEODISPACE		SAPS	Year 1	Year 2	Year 3	Year 4	Year 5				RAM	. 601 1	1401 2	ledi 2	10-00	1601.3					
30	SAP Web Dispatcher - FIORI	1	2000	2000	2000	2000	2000	2000				16	16	16	16	16	16	200		RHEL for SAP / SUSE for SAP	Consumption	
	SAP Web Dispatcher - EP (ESS/MSS)	1	2000	2000	2000	2000	2000	2000				16	16	16			16	200		RHEL for SAP / SUSE for SAP	Consumption	
	SAP Web Dispatcher - NW EP (LSO)	1	2000	2000		2000	2000	2000				16	16	16	16	16	16	200		RHEL for SAP / SUSE for SAP	Consumption	
	Landing Machine (Jump Server) - Windows	1	4000	4000		4000	4000	4000										1024		Windows Server 2012 or higher	Dedicated	
33			10000000									32	32	32	32	32	32				-	
		Total 33											1700	1700	2154	2654	2974	16124	10928			
	1	-							100													

Proposed OS needs to be same across all Production landscapes except Jump server

Peter

