



TECHNICAL SPECIFICATIONS

PROJECT NAME

Transforming DOST-STII Publications to Digital Platforms

PROPONENT

Communication Resources and Production Division

PERIOD COVERED :

May 2023- December 2023

APPROVED BUDGET

FOR THE CONTRACT: Php 2,250,000

NO.	QTY	UNIT	DESCRIPTION OF WORK	UNIT	TOTAL
l.	1	lot	Digital Media Development (Website Development, Hosting, Security) Website Development Create and develop a responsive, user friendly, cross platform CMS website for the S&T Post using PHP, Laravel/Codelgniter, and MYSQL. (working demo will be provided for reference) Front-end and Back-end should be ready and able to run in separate hosting Front-end should run separately from Back-end Website should run on latest Ubuntu, PHP and MYSQL versions. Refer to Annex A for Website key functionalities and features.	PRICE	Php 2,250,000
			 Preferably custom built from scratch than off the shelf opensource CMS platform. Create three design studies for the website as the basis for the development. Final design for approval of DOST-STII. Can accommodate recommendations by DOST-STII to the selected design. Mobile App Development Create and develop Mobile App version of the Website (Android and iOs) 		



•	Mobile App shall cater Front-End functionalities only. Refer to Annex A.	
•	Create three design studies for the Mobile Application as the basis for the development.	
•	Final design for approval of DOST-STII.	
•	Can accommodate recommendations by DOST-STII to the selected design.	
Web H	losting	
•	1-year subscription web hosting plan with the following specs:	

Training, Installation and Support

Cpanel Administration (if any)

and videos)

Protection

 Provide System Documentations (DOST-STII template for Software Requirement Specifications, Software Design Specifications)

Web storage: can accommodate at least 50GB worth of content (text, pdfs, images,

SSL certification, DDoS and Injection

- Provide User Manual (how to use the system)
- Provide Configuration/Setup Manual for web hosting
- Scheduled Front-end, and Back-end user training
- Assistance for replicating the system in a separate hosting.
- Technical support for system bugs and errors (at least three months for reporting tickets)

OTHER REQUIREMENT(S)

- Codes, design, and assets developed by the provider under this project shall be owned by the DOST-STII.
- Contractor shall submit a working soft copy of the system and its initial database apart from the one running live on the hosting site. DOST-STII should be able to replicate the system using the soft copies and documentations provided.
- 3. Web hosting account shall be turned over to DOST-STII after the project.





- 4. Initial requirement gathering and approved System Requirement Specification (SRS) and System Design Specifications (SDS) before development.
- All key features and functionalities listed shall form the basis of monitoring project completion.
- 6. Use eco-friendly materials and must employ eco-friendly measures during production period.
- 7. Must observe the use of non-sexist/gender-sensitive language in all official documents and communications under this project.

ANNEX A Website Key Functionalities and Features

Access Levels	Author
	 Add / Edit / Delete draft articles for posting
	Upload photos and video links
	Design article layout through an interface
	 Create meta descriptions, tags, and related keywords on the
	article
	 Assign related links that can be suggested to the readers
	Submit to publisher for approval
	View article listing for this author
	Publisher / Editor
	Approve draft article for posting
	Able to give comment on the draft article, and return to author
	View article listings of specific author(s)
	Mark articles / postings as archived
	Walk alticles / postings as alcinved
	System Administrator
	 Update sections of the website through an interface. Example but
	not limited to:
	 Add / edit/ delete banners, footers, menu, links etc.
	Customize theme colors
	 Manage and modify images, videos and other content.
	 Enable / disable website sections, advertisements
	Monitor reports
	Article visits
	Subscription data
	 Analytics
	 Publish / unpublish postings
	 Push notifications on mobile app version
	Create users and assign access levels
Front-End	 Responsive Design: The website should have a responsive
	design that can adapt to different screen size and devices
	 Navigation Menu: Readers able to click article and read on





Back-End	 Feedback and Rating: Each article / posting has satisfaction rating or feedback, includes comments Social Media Integration: Article can be shared through social media (Facebook, Twitter, etc) Email Subscription/ Newsletter: Reader can opt to subscribe/unsubscribe to a mailing list May require the following from subscriber: Age bracket Industry Fields of interest (Checklist) email address note: subscriber info should be encrypted Related Articles: Can suggest related articles Article Page Elements: Display category, author and post sharing options. Single Article Page: Display category, author, post sharing options, tags. Search Functionality: Search articles through keywords given that can be found on the title, article, or tags. Archive Section: Readers can browse and access previous issues or publications Featured Articles: Displayed the most recent or popular articles Analytics: The website should have analytics tools or graphs to track website traffic, total number of user engagements etc. SEO Optimization: The website should have proper SEO optimization to increase visibility in search engines (Google etc.) and attract more readers Ads: Design should allow space for advertisement.
Back-End	 Allow Author, Publisher, System Administrator functionalities

Mobile Application Key Functionalities and Features

General	 All applicable features from the website Front-End Receive push notifications Reflect menu and links as updated in the website
---------	--

TECHNICAL WORKING GROUP FOR DIGITAL PUBLICATIONS

ALLAN MAURO V. MARFAL

Member

LOUELLA

empe

ALFON B. NARQUITA

Chairperson



Republic of the Philippines
SCIENCE AND TECHNOLOGY INFORMATION INSTITUTE
STII Buildina.DOST Complex, Bicutan, Taguig City

Appendix 60

	STII Building,D	PURCHASE RE	QUEST			
Entity Name:	DOST-STII	Fun	d Cluster:	GAA-	CRPD (CICA)	
Office/Section:		PR No.: 2023 - 04-615		Date:	27-Mar-23	
CRPD-CD	ES/CSDS	Responsibility Center Code:				
Stock/Property	Unit	Item Description	Quantity	Unit Cost	Total Cost	1
No.	Lot	Developer/ Supplier for the development of the websites for DOST-STII publications (See the attached technical specifications)	1		Php 2,250,000	
				2		
		GRAND TOTAL			Php 2,250,000	+
Purpose:	Developer/ Su	pplier for the development of the websites for the	DOST-STII p	publications	_	
Signature:	Requested by		Approved by	r	/	
Printed Name:		O P. DE GUZMAN		RICHARD P.		1
Designation:		DIC, CRPD		Direc	tor	_
		A		/		